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Map of the South Central United States

Louisiana Trades with the World

With 15 Illustrations

21 Natural Color Photographs

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J. BAYLOR ROBERTS

The Society's New Map of the South Central
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Louisiana Trades with the World

By FREDERICK SIMPICH

With Illustrations by Staff Photographer J. Baylor Roberts

LUSH Louisiana, basking astride the Mississippi Delta, faces south on the Gulf of Mexico. Set thus on a great world trade route, she was born to barter.

On a map the Mississippi River system looks like a tree, whose roots fan out to form its marshy Delta. Big limbs are the Missouri, Ohio, Arkansas, Red, and other tributaries. Cities as far apart as Pittsburgh, Omaha, and New Orleans haul freight on the flood.

Linked with the Intracoastal Waterway (which ties Texas to Florida), this net gives Louisiana access to nearly 15,000 miles of navigable inland and coastal waterways!

What with railways and truck lines, these rivers and canals make paths for men and goods moving between the rich, factory-dotted Midwest and globe-girdling sea lanes that run in and out of the busy Gulf.

There's nothing new about this trade route. It's just busier. Coonskin-capped Kentuckians sent flatboats loaded with flour, live pigs, and cattle down the Ohio and Mississippi as early as 1782.

Pioneer St. Louis traders floated furs, venison hams, and lead for bullets down to New Orleans, swapping them for weapons, axes, wild-animal traps, and drugs, even perfumery, silks, and musical instruments.

Later the first locomotives used on Midwest rails came from the Atlantic coast, through the Gulf and up the Mississippi.

City That Care Forgot

Today New Orleans is one of our busiest ports. It's not exactly a seaport, for it stands 110 miles up the Mississippi from the Gulf. (See map supplement to this issue.) But ocean-going craft easily reach it, and many

go on to Baton Rouge, farther upstream.

To the Deep South New Orleans is a center of wealth, culture, and social leadership. To hosts of travelers it is the "city that care forgot," Mecca for honeymooners and pleasure seekers.

Most Louisiana visitors rush straight for New Orleans. They're eager to see Mardi Gras, taste French food, prowl noisy night spots, outsmart Royal Street antique dealers, or swap blithe banter with Creole maids who sell perfumes and pralines and play accordions in Bourbon Street cafes.

"America's most interesting city." That's what many insist. When I dined in the old French Quarter at the "Court of the Two Sisters" and heard Louisiana historian James J. A. Fortier recount its melodramatic past, I too felt its romantic, *Arabian Nights*-like spell.

On the Back Roads and Bayous

But that's another story, that saga of New Orleans and its adventurous annals of pirates, smugglers, duels, quadroon balls, steamboat races, and gentlemen gamblers.* What I came to write is the modern story of sprawling, changing Louisiana itself, a State that has seen pioneer barter built up into a sea-borne commerce that now covers the earth.

Slow and easygoing these friendly people seem—at first. A sign on the Western Union door at Leesville said, "Gone to coffee. Back in 30 minutes." All over the State everybody knocks off for mid-morning coffee. At the merest hint they'll drop their tools and go fishing. But don't let that easy gait fool you.

* See "Louisiana, Land of Perpetual Romance," by Ralph A. Graves, NATIONAL GEOGRAPHIC MAGAZINE, April, 1930.



In Louisiana's Gray-bearded Swampland, Even a Rolling Stone Could Gather Plenty of Moss

This picker of Spanish moss on a lake near St. Martinville plies his pole from a ten-foot platform built on a flatboat. The gray, gracefully hanging growth, called "Spaniard's beard" by the French and "Frenchman's wig" by the Spaniards, has been used for pillows, mattresses, and other articles since early colonial times. The black, horsehairlike inner fiber is used today chiefly in upholstery.

Remember that tortoise who outran a rabbit?

Ride out of New Orleans in any direction and you run into other worlds. Only a short hop from its airports you may look down on country roads dotted with top buggies hauling happy people who live within their income.

On the Industrial Canal that links the Mississippi with Lake Pontchartrain rattles and smokes the great Higgins plant. Here they produce a completed camp trailer every six minutes and 100 boats of all types a week. Yet downstream behind the levees I found an old man planing a cypress board to glossy smoothness, making a fishing boat—a three-month job.

He can't read, but he has "literate" hands. He loves his art. His kindly smile over his work proves the old saying that to be happy is to love to do what you have to do.

Rowing up one bayou, we met a French-speaking boy. He was scraping grass along the water's edge with his pirogue paddle, hunting tiny turtles, the kind you buy alive in curio stores, with pictures painted on their backs.

This lad was 16, barefoot, and had never seen New Orleans. But he might well take his light dugout and win Bayou Barataria's great annual pirogue race, that aquatic Kentucky Derby of the marshes (page 722).

Drilling for Oil in Watery Wastes

On down a lonely levee road, almost to the Gulf itself, we came unexpectedly upon a giant dredge, digging its own channel into the marshlands, just as a mole digs its own tunnel.

Through such ditches barges haul pipes, steel for derricks, and all the equipment for sinking oil wells, to a spot picked by petroleum geologists.



Airplanes Sow Rice When Fields Are Too Muddy for Use of Land Machines

Flying between 15 and 20 feet, a pilot of the Louisiana Flyers Service, Lake Charles, plants 100 pounds of seed per acre. A flagman marks each row so the pilot will not miss a strip or sow one twice (page 721).



Staff Photographer B. Anthony Stewart

This Fat-tired, Grotesque-looking "Marsh Buggy" Navigates Bayous and Lagoons

Like a seagoing automobile, it can rock and wobble its clumsy way through water and deep, liquid mud. Field workers of the Gulf Oil Company use this one in the Lake Hermitage region oil fields (page 709).



A Muskrat Trapper's Wife Cooks Lunch while Drying Pelts Hang over the Kitchen Stove

Behind the stove the trapper's hip boots are also drying, as the family fox terrier licks the baby's platter clean. Trappers' families don't mind the smell of the pelts—that's where the money comes from (page 723). Oil men move in now to dispute swampland dominion with the trappers.

What a bonanza this watery waste proves to be! Humble, Shell, Tidewater Associated, Magnolia, Texas, Standard of New Jersey, Socony-Vacuum, United Gas Corporation, and others all drill here, knee-deep in muskrat grass. But it's like boring holes in a Sargasso Sea.

No wheeled vehicle but the clumsy amphibious "marsh buggy" dares venture in. Its absurdly fat tires let it run on top the mud or swim open water (page 707).

Work crews blow mosquitoes away with airplane propellers used as fans. Cattle, grazing on the *chénieres*, or drier oak-grown flats, have died from being stung too often about nose and eyes.

One oil-field crew I saw lives in a houseboat, with screens. When they move "camp," a tug hauls their floating hotel.

Geophysicists, prospecting for new wells, may ride a marsh buggy.

Strangest of all is their quest by boat in the open Gulf. Here

as well as in the marshes seismologists fire off heavy dynamite charges, sometimes killing near-by fish, depth-charge fashion, and jolting shrimp and oysters (page 710).

To drill a submarine well, a platform to hold the derrick is set up on piles stout enough to withstand (they hope!) hurricanes that sweep the Gulf.

Tidelands Yield Oil, Fur, and Food

One Magnolia well is 23 miles offshore. When the sea gets too deep for platforms, a well may be "bent." This "directional" or lateral drilling is done with a whipstock, which bores the hole horizontally, straight out under the sea, at an angle from the original vertical well. Lately, Louisiana has leased more than



"How Did You Win That \$5 Grin?"

"I caught this guinea, sir," he said. The Lions Club turned it loose at a Fat Stock Show in Beauregard Parish and offered a prize of \$5 to the boy who could catch it.

1,000 square miles of this "continental shelf" to oil companies at more per acre than the acre cost of many farms in the 1930's.

These oil-bearing tidelands stretch from the Mississippi west to Texas, and from their bayous, ditches, and estuaries thousands of muskrat trappers, shrimpers, and oystermen reap fortunes in fur and foods. More muskrats are trapped in Louisiana than in any other State (pages 708 and 723).

Crews on some shrimp boats consist of father, mother, and children. In nicking the heads off a shrimp with their thumbnails or helping handle the nets, many children are as clever as their elders (page 726).*

* See "Delectable Shrimp," by Harlan Major, NATIONAL GEOGRAPHIC MAGAZINE, October, 1944.



H. L. Nye and Associates

Seeking New Oil Pools, Prospectors Wade the Marshes

This is a "shooting party," out to make seismograph recordings. They determine subterranean geological structures by use of a sonic device. The lead man carries dynamite; the second carries sticks which are fastened together to lower the explosive into a drilled hole. Third and fourth men carry reels of wire, which connect to geophones spaced at regular intervals of several hundred feet from the shot holes to pick up the echo of the blast and record it on the seismograph apparatus. Depth and contour of formations below are figured out by measuring the time it takes for echoes of blasts at different points to bounce back to the surface (page 709).

In widely scattered huts these marsh folk lead lonely lives. Children ride in boats to school and church (Color Plate XVI). Roads are few. Along one road a doctor makes weekly trips. If anyone is sick, occupants hang out a white flag, a signal for the doctor to turn in.

This Gulf coast is so low, flat, and storm-swept that few towns stand on it. No part of all the United States coastline is so empty of human life. But along its north edge you find such prosperous towns as Houma, Morgan

City, Franklin, New Iberia, and Abbeville, and so on west to Lake Charles.

End of Evangeline's Trail of Heartbreak

New Iberia, on Bayou Teche, was settled about 1765; today it has some 18,000 people, largely of French and Spanish descent. Visitors come to see its early homes, to enjoy a walk through the Jungle Gardens of near-by Avery Island, or to go north to St. Martinville for a look at its old Roman Catholic Church and its historic archives and to visit the Evangeline Oak.

Film actress Dolores Del Rio played the part of Evangeline, then posed for the Evangeline Monument which now marks the grave of Acadian immigrant Emmeline Labiche, who, says tradition, was the original of Longfellow's heartbroken heroine.

In its heyday, St. Martinville was known as "Little Paris." In the French Revolution refugees fleeing here included barons, marquises, counts, and countesses. The minuet was danced; some ladies came to balls in jewel-covered gowns they once had worn at court in France.

One faded epitaph reads: "Jae. Aspasie Bienvenue, Espouse de Fr. Olivier Deveron. Décédée le 27 Nov. 1811, âgée de 26 ans. Femme respectable et tendre mère."

Booming Shreveport Smacks of Texas

But what a difference between this tranquil, easygoing Cajun country and such restless boom towns as Monroe and Shreveport, in the northern part of the State.

"We're as far from the Gulf coast in our way of life as we are from the China coast,"

said John D. Ewing, publisher of the *Shreveport Times*. "I know. I was born and raised on the Gulf. I swam the Mississippi when I was 13, and watched hunters lasso alligators."

Shreveport, near the Texas line, resembles Dallas. It's full of cowmen in boots and big hats. Some streets here are named for early Texas heroes who passed this way to fight the Mexicans. At a Rotary luncheon a joker shouted that every man from Texas should stand—and all got up but four!

This rich, noisy town turned Indian tepees into skyscrapers, and dusty cow trails into paved highways. It's named for Henry M. Shreve, a steamboat man who helped Andy Jackson defeat the British under Pakenham at the Battle of New Orleans. He made it a Red River port. He cleared that river of its famous "raft," a giant log jam 160 miles long and centuries old, and opened it to navigation when Congress ordered this done.

Here rises one of the country's great glass works. Shreveport dehydrating machines are used to dry sweet potatoes all over the South (page 721), while "stop-and-go" signs made here are used in New York City streets (Plate IV). Some of its luxurious homes shelter the families of Wisconsin and Michigan lumbermen who came here and amassed fortunes when virgin forests were thick.

Oil and Gas Supplant Cotton as King

When cotton was king, plantations of feudal magnificence flourished in rich, alluvial Red River Valley. Shreveport streets were blocked with bales; brokers worked in linen dusters, with lint in their whiskers. Today cotton is



Yan Hani from Pan American Airways

A Calm Ass and Nervous Calf Fly Off to Nicaragua

This Noah's Ark of the air, launched by Oscar R. Whilden, New Orleans livestock broker, also carried purebred pigs, several horses, some Ohio calves, baby gamecocks and hens, and three Aerodale pups. "I ship lots of high-grade livestock by this Pan American flying Noah's Ark," said Mr. Whilden. "I serve no meals aloft, need no hostess—but get 'em there quick, and mortality insurance costs less than by surface ship" (page 728).

a mighty crop, and the making of cottonseed oil and cake is a big industry. But oil and natural gas are supreme.

Caddo Lake country, northwest of Shreveport, brought in pioneer oil wells. Near-by Texas and Arkansas fields add to the city's growth. Excited by oil booms, people flock here from every State in the Union.

Through its far-flung system the United Gas Pipe Line Company now delivers natural gas to customers from Mexico to Florida.

At Shreveport's Barksdale Field are the headquarters of the Army Air Forces' Air Training Command.

Shreveport is a good place to live. "The

bass get so hungry around here," says fisherwoman Ceola Curran, "that they've been known to jump out of the water and snap at a blackbird teetering on a lily plant!"

We drove south from Shreveport through Mansfield and Many, then east to Kisatchie National Forest. We saw men planting young trees, and cameraman Roberts took a picture of a fire fighter in action (Plate XI).

From here south to Kurthwood, on the road to Leesville, lie infinite leagues of empty land dotted with old stumps. Yet, despite ruthless cutting, shiploads of lumber still leave the State, to meet shiploads of foreign mahogany coming in—all a part of the net that holds our overseas trade together. Wood in all its forms helps the march of civilization.

Today 52 percent of the State is still forest area; 720 industries depend on trees for raw products. Originally there was an estimated 197 billion feet of standing timber, equal to one 12-by-1-inch board more than 37 million miles long!

Pioneers found more than 100 kinds of hardwood growing here. Soon after the Civil War, Baltimore and Philadelphia sent here for schooner loads of pine. Sawmills by the hundreds rose as railways spread. Southern pine built towns all over America and dominated the lumber markets of the world.

"Yet," declares Assistant Forester J. H. Kitchens, Jr., "our woodlands today are not worked at potential capacity. We have about 1,500,000 barren acres that need replanting. Fire is hurtful and so are bad cutting practices.

"But we see timber as our one replaceable natural resource. With the help of aerial fire patrols, radio-controlled fire crews, and all our replanting, we now grow more trees than we cut."

Ruts Recall "Battle of Louisiana"

Through stump-strewn hills on the road to Leesville you cross a network of ruts, deep and lasting as those old Santa Fe Trail ruts across the plains of Kansas. These were worn by tanks and cannon when some 350,000 troops maneuvered here in World War II.

"When the Army built Camp Polk here at Leesville," said one farmer, "we sure learned a lot about other kinds of Americans. Yankee soldiers married our gals; they shot all my frogs and they killed my goldfish when they washed their soapy socks in my pond. But I guess that's war."

Now Leesville is back to normal, with some 3,500 population, talking politics, listening to courthouse comedy, or going hunting.

"I brushed off a goose yesterday," said ex-sheriff Tom Bullock.

For decoys some hunters use old newspapers, twisted in the shape of a long-necked goose and dropped on the grass.

With Mr. Bullock I rode west to the Sabine River, the Texas border. This is the poorest part of the State I saw. You wonder how it lives.

"When my father ran steamboats on the Sabine," said one old lady, "lots of people lived around here, cutting lumber, and trade was good. I used to wring two chickens' necks at once, holding a chicken in each hand. Now there ain't a chicken on the place. It's hawks, I guess, and foxes.

"Wild foxes seemed to be all mad this year. They bit horses and cattle. In broad daylight a fox ran into one woman's backyard and tried to bite her as she was hanging out her washing. We're scared to go outdoors without a club."

Armadillos Dig Up Flower Gardens

Land gets better, houses newer and bigger, as you near De Ridder on the road south to Lake Charles. In this warm, lush land of sun and rain, flowers grow as in a hothouse—when armadillos don't dig at their roots!

"These clumsy creatures really have us garden fans hanging on the ropes," said an azalea lover. "Lately they're swarming over from Texas. Some say they swim the Sabine; others claim they lope over the bridges.

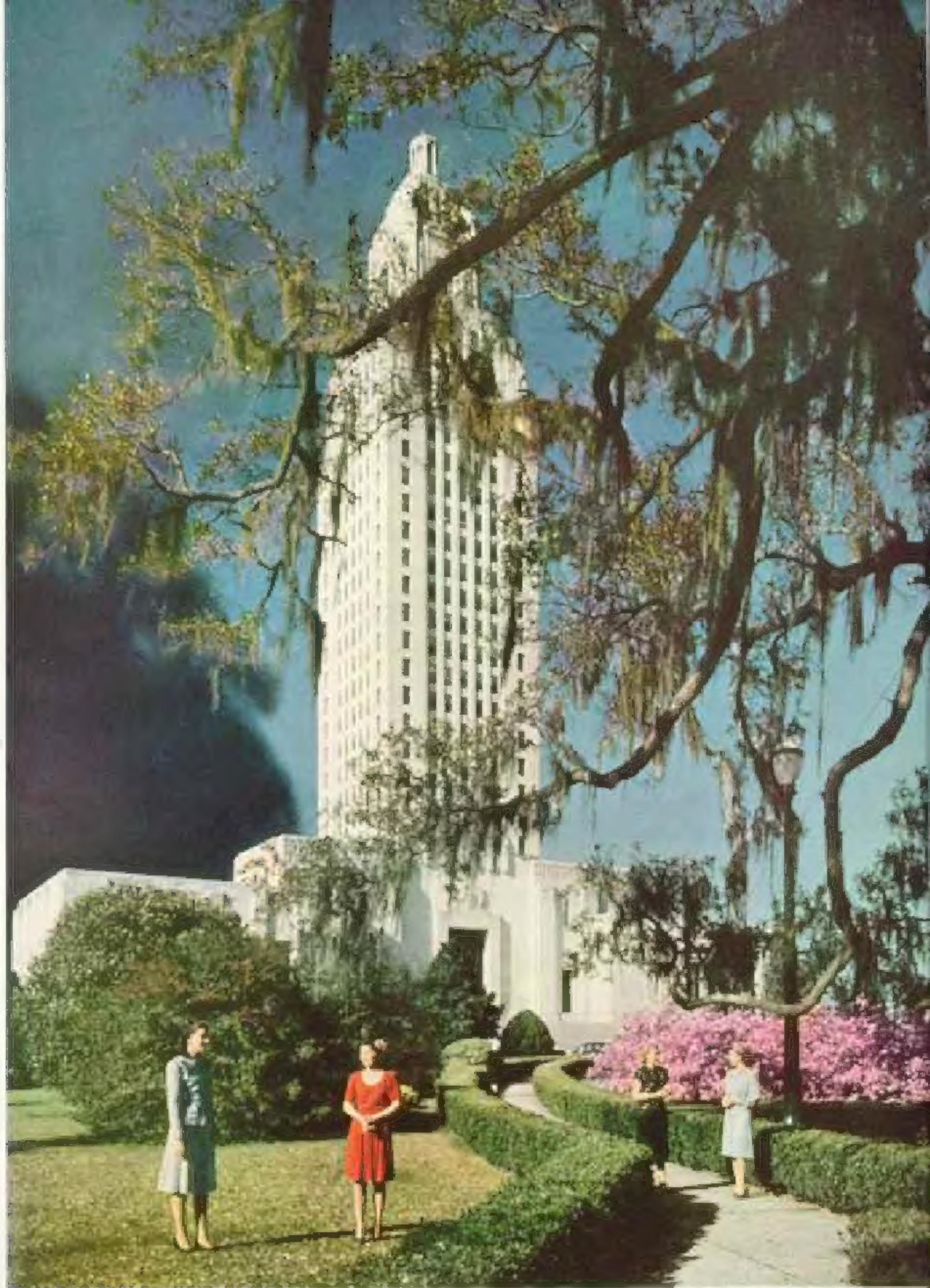
"Anyway, they're devastating our countryside. Digging for earthworms and crickets, they root up lawns and wreck flower gardens worse than pigs. It's hard to shoot 'em, since they raid only at night. To make it worse, the nasty things always have quadruplets."

Before railroads came, Lake Charles was a rough-and-tumble town of slavers and smugglers; then of shouting, shooting cowboys driving longhorns in from Texas, swimming maybe 2,000 a day across the Calcasieu on their way to meat-hungry New Orleans. Sawmills later made this a huge lumberyard.

Marion, it was first called. Pioneers didn't like that first site, so they loaded their log jail and courthouse on oxcarts and moved the town to where the city now stands, beside beautiful Lake Charles and the Calcasieu River (page 727).

To fly over this tree-shaded, flower-strewn city is like looking down on Eden, with the Hanging Gardens of Babylon set about palatial homes on Shell Beach Drive, where one private garden alone grows 17,000 azaleas and seas of camellias.

In place of Nebuchadnezzar's palace and the Tower of Babel rise enormous plants that make butadiene, caustic, ammonia, chlorine, and soda ash.



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Excerpt from Dr. J. Taylor Roberts

Louisiana's Towering Capitol Scratches the Clouds over Baton Rouge

Visible leagues away, this glistening edifice is a popular landmark for pilots. Each of its 48 steps is marked with the name of a State and the date of its entry into the Union.



Box King of Carnival and Land - Mistle, Feasts His Queen on Mistle - New Day

Copyright 1914 by the Box King of Carnival and Land - Mistle, Feasts His Queen on Mistle - New Day



Acres of Shouting. Far from Highway Park Canal Street Drove Made Give

to the fact that the crowd in the street was so large that the police were unable to control it. The crowd was so large that the police were unable to control it. The crowd was so large that the police were unable to control it.





This Standard Oil Sphere at Baton Rouge Holds Isobutylene for Synthetic Rubber



Veins and Arteries of a Refinery Radiate from the Transfer Manifold

THESE ARE THE VEINS AND ARTERIES OF A REFINERY. THEY ARE THE LIFELINES OF THE PETROLEUM INDUSTRY.



Great Refinery and Other Industries Make Baton Rouge One of the South's Finest Cities
The refinery shown here is one of the largest in the South. It is owned by the Louisiana State Refining Company, which is a subsidiary of the Louisiana State Refining Company, which is a subsidiary of the Louisiana State Refining Company.



Miss Virginia Bell Miss Norma Tinsley

The two girls are standing next to a table with a large, dark, round object on it. They are both smiling at the camera.



Miss Norma Tinsley Miss Virginia Bell

The two girls are standing in front of a display of colorful, rectangular blocks. They are both smiling at the camera.

Roaring so loud that on still nights you hear it miles away is the great \$80,000,000 Cities Service refinery, whose "cat" crackers blow 60 tons of catalyst powder a minute into gas oil to make high-octane fuel. What a noise! Only a lion big enough to scratch his back on the Empire State Building could give such a growl.

Down to the Gulf Go Laden Ships

Southward stretches busy Calcasieu River and Pass Deep Water Channel, reaching the Gulf 35 miles away. Riding down the Channel, we saw tankers going to sea with oil products from Lake Charles.

There was a lumber ship loaded with Louisiana longleaf timbers for the Netherlands, one with Minneapolis flour for Brazil, one with Louisiana and Texas rice for Puerto Rico, and yet another with California and Arkansas rice for Manila—a ship that had brought in crude rubber from, and copra,

Cameron town stands near the Gulf end of the Channel, in a vast coastal plain of cow ranches broken by muskrat swamps. It's so peaceful that its jail has been used as a corncrib!

One cow hunter baited his trap with a dead bird and caught a buzzard that had been banded years before on Avery Island.

We talked with a water-front grocer whose tiny store is packed to the ceiling with canned goods.

"I sell maybe \$100,000 worth a year to the fishing boats," he said. "Though they're knee-deep in shrimp, oysters, and fresh fish, these sailors tote on canned salmon!"

Twilight fell as we turned back upstream. "Look quick, there in the water!" exclaimed my companion. "It's an alligator with horns!"

In the dusk, it did look a bit sea-serpenty, but it was only a cow, swimming with her back under and only her face and horns showing.

Our South Raises More Rice than the Whole United States Eats

That night I dined at the home of Capt. Harry G. Chalkley, Jr., USN, retired, who runs pumps that would suck the Calcasieu dry if it were not for the tremendous volume of water in this slow, clear river—pumps that pull 100,000 gallons of water from the stream per minute and throw it on 40,000 acres of land.

Rice here is sown and fertilized from airplanes (page 707).

"Since 1647, when Governor Berkeley started it in Virginia, our rice culture has had

a vivid history," says Homer L. Brinkley, general manager of the American Rice Growers Cooperative Association.

"South Carolina in its early days supported what was perhaps our first agrarian aristocracy. Civil War, hurricanes, and competition from other regions wiped that out. Now ours is the leading rice State; we also help feed a hungry world. Shiploads go to Italy, Puerto Rico, even the Philippines (a rice-growing country). Louisiana rice is one of Cuba's largest food imports."

Here in southwest Louisiana we saw the most cattle, though the State still imports 40 percent of its meat products.

Stock raising once got a setback from tick fever. To banish ticks, Louisiana built a fence along much of the Texas border and passed a law that said dip everything with hair on its back. They couldn't catch all the wild horses to dip them, so they shot a lot.

Many men argued that ticks may serve a useful end or they wouldn't have been created! A few State officials trying to enforce the dipping law were shot by farmers.

Free of Tick Fever, Herds Multiply

By 1936 the State got free of tick fever, since then herds have doubled. Herefords remain the most popular breed, but there is a rivalry between Aberdeen-Angus and Brahman bull enthusiasts.

"These humpback Brahmans were first brought here by an Englishman who came to study sugar planting," said J. M. McLenore, who operates a big Brahman breeding ranch near Alexandria and whose 11-year-old son handles the ranch pay roll.

"They're ideal fever-resisting cattle. Their sweat glands give off an oily secretion repellent to ticks."

We drove our motorcar slowly into a herd of rhorned Brahman heifers. With the curiosity of antelope they crowded about us, thrusting their funny faces almost against the window glass. Big ears, like a doe's, set far down beside their cheeks, give them a clownish look.

Forage crops here include Dallis, Bermuda, Dutch white clover, lespedeza, etc. But, to fatten cattle for market, feed must be imported, and carloads of animals are shipped north for final fattening in Midwest corn-fodder lots.

Use of dried sweet potatoes as stock feed promises to change the whole bovine business.

For this all the South applauds Dr. Julian C. Miller, Head of Horticultural Research at Louisiana State University. Though he is noted for his breeding legendman with



Hundreds of Square Miles of Water, Marshland Form the Rich Fur-trapping Regions of Southern Louisiana

Trappers move about in the great marshes and bayous of Louisiana for trapping beaver, muskrat, mink, otter, and other fur-bearing animals. The bayous are a network of water, and the marshes are a vast expanse of land, often covered in water. The trappers are seen in the distance, moving through the water and marshes. The scene is a typical representation of the rich fur-trapping regions of Southern Louisiana.

potato drying plants than we have cotton gins."

"My big registered Aberdeen-Angus herd never feeds corn," says Lloyd J. Cobb, who owns the Stone Mountain Ranch near St. Francisville. "I feed corn and sweet potatoes with Mr. Douglas Warriner and I dry them on our plant at St. Francisville."

"I think that corn will finally replace cotton as the main crop in the South because we can grow from 200 to 500 bushels of yams on an acre of land, whereas our corn crop may average not more than 15 to 20 bushels. When we grow corn, the South will save the cost of shipping it north and it now spends for imported stock feed."

"Every time we have a big stock fair our plant was full of yams for our consumption. We pack them under the Maryland label and those of a score or more of wholesale grocers, for sale all over the United States."

We made a picture of Mr. Cobb's daughter, Mary, feeding dried yams to an 1,800-pound bull on her father's ranch. He raised bulls and calves that have won ribbon prizes at various state shows (Plate VIII).

Here about St. Francisville you may see or no French families. Most of the families here from Virginia and the Carolinas were French and Spanish and they are still French. Many epitaphs about Grace Church here telling names of men prominent in State history.

Mrs. Mary Willis of St. Francisville told me to visit at Highland, a stretch home owned by her ancestor, William Barrow, in 1800. Though it is not open to the public, its present owner, Mr. and Mrs. D. L. Norwood, are gracious hosts.

Mrs. Norwood, like Mrs. Willis, is a descendant of the first Barrow who came to West Feliciana Parish. For six generations



This Red River Parish Cypress Is Five Feet Through
Cypress. It will not be possible to cut it out.

the Herrow family and its relatives have lived most hospitably on the plantation, and estate.

In this Red River Parish, near Mr. Newcomb's plantation, was located the really historic "the spot" where at Baton Rouge, Louisiana, the first cypress was cut from the swamp. It was cut for the first time in 1812, and it was said that the first cypress was cut for the first time in 1812. He didn't paint the turkey flag—just a picture of it.

Baton Rouge Still Can't Believe It!

With 1,000 big silvery tanks, half-ton-sized steel bottles, Haula, Louisiana, had at one time the most complete cypress cutting plant in Louisiana. Baton Rouge, Louisiana, had the first cypress cutting plant in Louisiana, and it was the first cypress cutting plant in Louisiana.

Here, in the heart of the cypress swamp, the first cypress cutting plant was established. It was the first cypress cutting plant in Louisiana, and it was the first cypress cutting plant in Louisiana. It was the first cypress cutting plant in Louisiana, and it was the first cypress cutting plant in Louisiana.

At the same time, the first cypress cutting plant in Louisiana was established. It was the first cypress cutting plant in Louisiana, and it was the first cypress cutting plant in Louisiana. It was the first cypress cutting plant in Louisiana, and it was the first cypress cutting plant in Louisiana.

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This Is One of Many Shrimp-Lifting Platforms Which Have Been Built on Piles over Mud Bars Around Margate Bay

There is a sharp drop in the number of people who are not satisfied with the regular supply of electricity in the city of Lima, Peru, from 1990 to 1991. In the regular survey of the World Bank, the proportion of people who are not satisfied with the regular supply of electricity in Lima, Peru, fell from 70% in 1990 to 30% in 1991.

Other respondents are expected to place more emphasis on the other two areas, and will also

In 1917's war scattering war in Europe was one of the largest sources of aviation gasoline to Uncle Sam and his allies. Other large firms growing up were Pan Am, Submarine Electric Cable, Ethyl Corporation, Permanente Metals Corporation, General Chemical Company, General Chemical Industries, Inc., Independence Chemicals, the huge power plant in California, Electric Company.

From here, again, I can be purchased, for cut by rail, barge, and ocean steamer into the vortex of world trade.

Scripture Saved This Sugar Bowl

From the 45-story top of the new Capitol tower in Baton Rouge you look west, across Old Man River, to see cane fields and tall smokestacks of sugar mills.

The "Eastern Shore" is largely flat, with some small hills and broad, shallow waterways. The land was covered with Spanish moss.

Barbille in 1791 planted sugarcane on what is now New Orleans, and here cane was raised to make granulated sugar. At one time sugar making was the State's richest industry. It earned fortunes for hispano-american and living planters of that golden age.

A few decades ago, cane disease hit the planters hard; many of them died. Then plant pathologists rescued the industry. They brought in vigorous disease-resistant kinds of cane. Now sugar cane in India can stand up to even the worst blight, but it still needs

On the Mississippi, a large island was what looked like a mass of white dust. It was sulphur, which helped make this Gulf coast a world source of heavy chemicals.



Crooked as the Orinoco Delta, the Calcasieu River Cuts Odd Forest Patterns Around Bayou Lake Charles

In the background lies the Louisiana coast, a long, low, flat, marshy land. A long, thin, crooked river, the Calcasieu, winds its way through the heart of the land. The river is the central feature of the scene, with its banks covered in thick vegetation. In the distance, a small town or settlement is visible on the left bank. The sky is overcast, and the overall scene depicts a vast, undeveloped natural area.

The river is a long, low, flat, marshy land. A long, thin, crooked river, the Calcasieu, winds its way through the heart of the land. The river is the central feature of the scene, with its banks covered in thick vegetation. In the distance, a small town or settlement is visible on the left bank. The sky is overcast, and the overall scene depicts a vast, undeveloped natural area.

Victims Thick as Pelicans

Airplane make for New Orleans. The first of the victims of the Calcasieu was a Mexican, a young woman. She flew in here, crown of her head, and to enjoy the American land. Latin Americans often fly to New Orleans.

The first of the victims of the Calcasieu was a Mexican, a young woman. She flew in here, crown of her head, and to enjoy the American land. Latin Americans often fly to New Orleans.

Along a troupe of flight in Canal Street and down the river, the Calcasieu is a long, low, flat, marshy land. A long, thin, crooked river, the Calcasieu, winds its way through the heart of the land. The river is the central feature of the scene, with its banks covered in thick vegetation. In the distance, a small town or settlement is visible on the left bank. The sky is overcast, and the overall scene depicts a vast, undeveloped natural area.

An service lifts travel horizons for people in the Mississippi Basin. A few lines of flight in here to Central American countries, Peru, Chile, and Argentina. Lines are laid to New Orleans via the American and Pan American-Grace Airways. Air freight and passenger service.

A Noah's Ark that Flies

A low jumper, over the moon in Mother Goose. Home of the Calcasieu, in an aerial Noah's Ark.

We photographed one sad-eyed jackass at the open door of a Managua-bound Pan American plane, taking one last look at Louisiana and saying a lachrymose farewell.

On another day from a flying ark came the bleats, hawks, harks, hays, grunts, and cackles of sheep, goats, hifers, bulls, jacks and jennets, hens, gamecocks, and three Airedale terriers.

"I fill the air with a steady stream of south-bound animals," said Oscar R. Whilden, Louisiana livestock exporter. "I also ship thousands of work mules by steamer to Cuba, Jamaica, Puerto Rico, Trinidad, and South America."

"It's quicker, and mortality insurance costs less, to fly valuable race and saddle horses, pedigreed cattle, sheep, and poultry. I built pens and stalls on the plane's floor. . . . No, I serve no meals aloft, and need no hostess!" (Page 711.)

Odd Items Figure in State Exports

In south Louisiana the town of Rayne, on Highway 90, busy rice place, also traps big frogs. One weighed three pounds. Many are shipped alive for aquariums or for biological work. Half a million have been sold in one season.

Here the Japs once bought live frogs, for founding their frog-leg trade in the Far East. Now men here tan frog skins for making belts, purses, and batbands.

Every pipe lover wants perique in his smoking mixture. The whole world's supply comes from some 400 acres in St. James Parish, west of New Orleans. "Type 72," tobacco blenders call it; England, Canada, the Netherlands, and Belgium are the chief buyers.

Nearly all the shallots eaten in America come from a region within a 100-mile radius of New Orleans (Plate XIII). From the orange belt in Plaquemines Parish comes also part of the Nation's supply of Creole Easter lily bulbs.

Salt deposits were worked by Indians before De Soto came. Three of the world's big mines are found in the "Five Islands" region near New Iberia. Millions of tons have been shipped (Plate VIII). Jefferson Island, in this group, was owned by Joe Jefferson, American actor who played "Kip Van Winkle."

Spanish moss, picked from trees and cured, is used in mattresses and in upholstering furniture and motorcar seats (page 706).

"When Andrew J. Higgins discovered stumps from swamps on the Industrial Canal, near New Orleans, to build a boat factory,

spectators saw alligators blown high into the air," said Clarke Salmon, Sr., former editor of the *Item*.

Alligator skins, 25,000 to 35,000 a year, are shipped from this State. Some gators are shot at night with aid of flashlight; some are caught with meat-baited lines. More daring hunters catch them with their bare hands!

Negroes sometimes eat alligator tails. Near Bogalusa I talked with a woman who said her neighbors bait alligator hooks with young cranes and herons.

We long depended on China for tung oil made from tung tree nuts. It's used by paint and varnish makers. Groves of these precious trees now grow from Texas to Florida, especially in Mississippi and Louisiana. Today some 5,000 growers pick 47,300 tons of nuts a year, yielding close to 20,000,000 pounds of oil worth many millions.

Mountains of freight are loaded or unloaded the year round at this State's deep-water ports—New Orleans, Baton Rouge, and Lake Charles.

Alcoa, Delta, Grace, Lykes, United Fruit, Waterman, and dozens of other lines help handle overseas trade. On miles of docks at New Orleans and Lake Charles you see endless export items, from live mules to second-hand Mardi Gras floats—the latter for South American fiesta use.

Goods for abroad include flour, lard, lumber, automobiles, trucks, farm implements, pleasure boats, oil products and oil-field machinery, cement, drugs, surgical and surveying instruments, toms, builders' hardware, shoes, typewriters, barbed wire, furniture, beer, bottles, and canned goods.

How Ships Link Louisiana with Other States and the Seven Seas

"Except New York, this is the only American port that offers a well-balanced two-way cargo," says Theodore Brent, President of the Delta Line (Mississippi Shipping Company Inc.).

"Growth of our imports is impressive. They include raw sugar, green coffee, chicory, cocoa beans, mahogany logs, jute, sisal, chicle, molasses, Philippine coya and hemp, oils, fats, crude rubber and latex, hides, skins, tapioca, rum, coconuts, and, of course, bananas at the rate of a million stems a week."

Mr. Brent grew up in the Midwest and spent years handling traffic on inland waterways.

"You have only to look at all the factories from Pittsburgh to Kansas City," he says, "and then note how big industries are rising in the South—as in Birmingham, Memphis,



World Traders Circle at New Orleans' International Exhibition

11. The World Traders Circle at the New Orleans International Exhibition. The man in the dark suit is the author of the book "The World Traders Circle" and the woman in the red dress is the author of the book "The World Traders Circle".



The Yellow & White School for the Poor & Sick, founded by the Ball Corporation, is located in New York City.



This State Fire Engine, with Red-equipment, seen at Big Nose, shows how frequent fires in the West are.



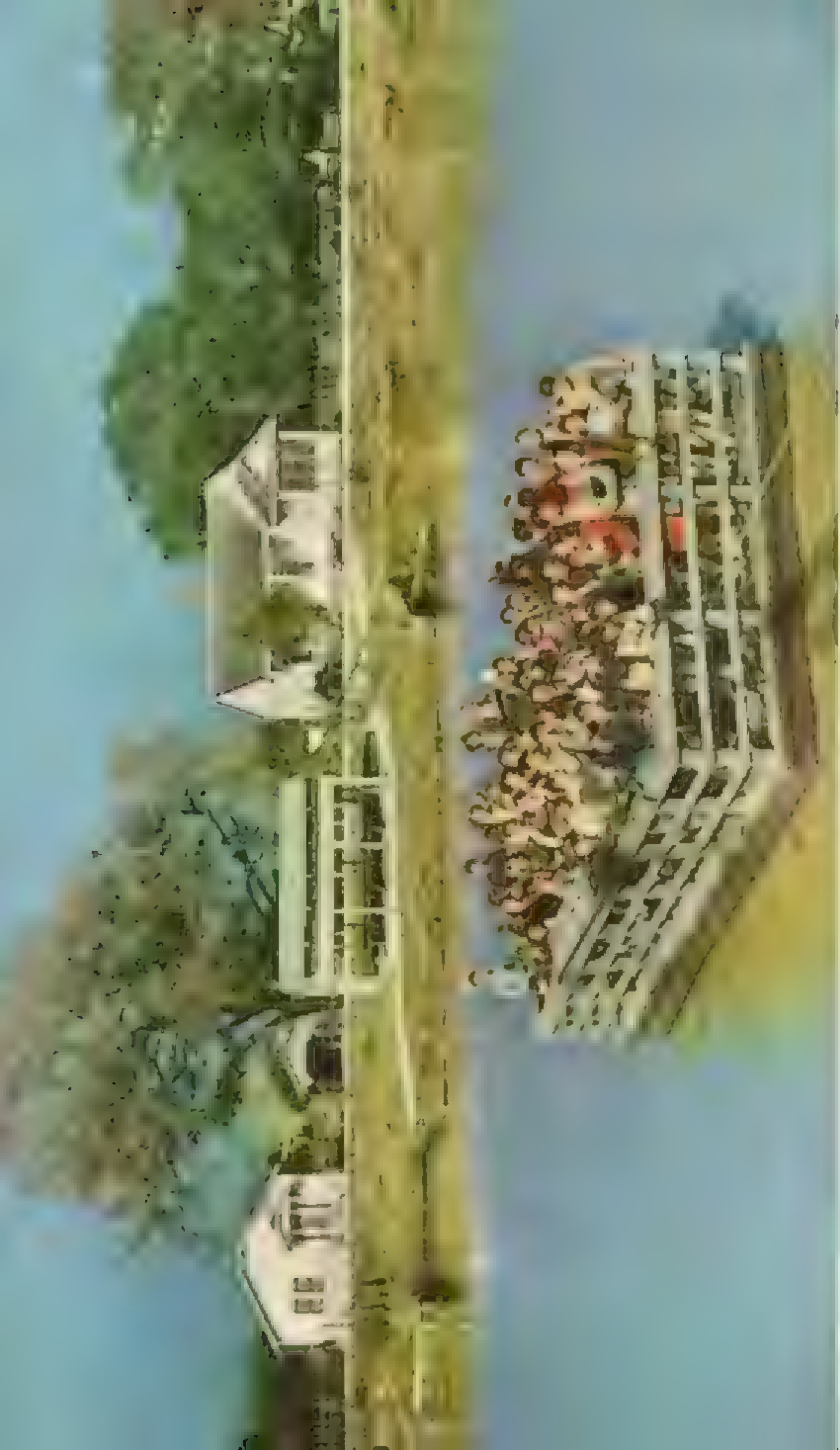
This Store on Wheels Saves Housewives Trips to Market

The People of the community have been helped by the mobile store which has been set up in the community center. The store is open every day from 10 a.m. to 6 p.m.



Washing and Drying Are Washed and Dried for Shipments to Foreign Countries

The women are working in the laundry which is part of the community center. The laundry is open every day from 10 a.m. to 6 p.m.



Not only the children, but the teachers and the principal, are all in costume. The children are in various costumes, some in dresses, some in hats, and some in face paint. The teachers and the principal are also in costume. The children are in a line or a group formation, possibly for a school play or assembly. The background shows a clear blue sky and more trees.



James and the Author together near Haver's Lake for James for a New York

1890



A School House, Remnant of a Bus Accident, Holds Pupils in Classes at Gilson
 The school house at Gilson, which was built in 1900, is now a museum. It is the only
 school house in the state that has been preserved in its original condition.



"Make Mine Libby's" - Farmers' Libby's in the State Library, San Anselmo, Island
 The Libby's in the State Library, San Anselmo, Island, is a collection of books and
 documents, including a large collection of Libby's, which are the only Libby's in the state.

Little Rock, Shreveport, Baton Rouge, Lake Charles, and over in Texas—to see how big our stream of goods moving down to Gulf ports is becoming.

"To help haul such goods to overseas markets, Delta has recently started a new line to serve some 14 ports in West Africa."

Steel, iron pipes, and oil machinery form a big part of down-the-river-and-Mississippi cargoes. We heard that big loads of these things would soon move from here to the Red Sea and Persian Gulf for Arabian oil fields.

Mountains of Nitrates and Bauxite

From Chile this year Grace freighters are bringing mountains of nitrates to Lake Charles for use in fertilizing cotton fields.

Alcoa ships bring bauxite from Surinam for making aluminum.

"Bulk of our outbound traffic originates in the mid-continent area," says W. H. Trueth, Alcoa's Southern Division manager, "in the vast industrial empire that lies between the Alleghenies and the Rocky Mountains."

Besides its freighters, Alcoa operates the liners *Alcoa Clipper* and *Alcoa Corsair*, offering fast passenger and freight service to Jamaica, Netherlands West Indies, Venezuela, Trinidad, and Barbados.

Delta Line has just launched three new liners, *Del Mar*, *Del Sud*, and *Del Norte*, whose cabins resemble hotel suites. I was invited on *Del Sud's* shakedown cruise to Havana. I declined, to stay in Louisiana and interview certain men to get this story. After the *Del Sud* had sailed, I found that nearly all the men I wanted to see were on that very cruise!

"We got our start shipping live cattle to Cuba in 1880," said Solon D. Turman, vice president of Lykes Bros. Steamship Company, Inc.

"In the Spanish-American War one of my kinsmen was in charge of the transports that moved General Shafter's army, mules and all, to Cuba. Today we own 50 new ships, charter 82 more from the U. S. Maritime Commission, and traffic with many Latin American ports and with the United Kingdom, Europe, Africa, and the Far East."

From Mules to Boa Constrictors

As in the beginning, this globe-girdling line is still popular with livestock shippers. Its steamer *Scottsburg*, on four trips, took 3,150 mules to Turkey, and lost only 11. They died of distemper.

Otello, that famous \$90,000 Italian race horse, came to America on a Lykes ship, the *Highflyer*. When our troops landed in Italy,

Mussolini sent this horse deep into Germany for safekeeping.

Other odd "livestock" rides these ships. From Colombia came squinting boa constrictors for the W. A. King snake farm at Brownsville, Texas. On that voyage, after a "blessed event," 14 baby boas were given the freedom of the sunny deck.

To handle traffic faster, New Orleans is working for a tidewater ship channel. This will be a short cut across the swampy muskrat lots from the city down to the Gulf, a faster route than winding Mississippi passes.

Already, too, New Orleans has set up a snugly reined "free port" foreign trade zone, in old Hanseatic League style. Here goods from abroad may be unloaded for reshipment to other foreign ports without paying American customs duties.

Clearinghouse for International Trade

To become the capital of U. S.-Latin American trade is the city's ambition. Her International House, first of its kind in the States, is a part of that plan.

This global office-club, with all its interpreters, bilingual stenographers, and trade and banking advisers, gives American and foreign businessmen a quiet, convenient place to meet, talk, and dine (Plate IX). Its telephones echo with foreign tongues. Lunchtime in its lobbies is like a noonday at the Tower of Babel must have been.

Daily guest-book signatures may show fifteen or more nations represented by buyers and sellers, scholars and tourists visiting this unique organization.

Concrete results? A Kansas City dealer asked, "Where can I sell radios abroad?" They told him, and that same day he found an overseas customer for 1,000.

An Alabama farm implement dealer asked for help. He got an order from Venezuela for carts, trucks, and trailers. A Dallas firm that exports building materials set up an export office here, on advice and aid from International House, and now sells goods to fifty different firms in Latin America. The list is long.

To this growing trade stream Louisiana and all Dixie add their share.

"Rise of new industries, and more machines on farms, swiftly change the whole pattern of southern life," says former Governor Sam H. Jones, noted authority on Louisiana economy.

"Ed Whitney's cotton gin put whole armies at work in fields. Now the mechanical cotton picker is releasing them again."

In forestry work, instead of setting out



Freight Trains Board a New Orleans Ship for an Ocean Trip

As you can see, freight is being put on the ship, and the ship is being loaded. The ship is being loaded with freight, and the freight is being put on the ship. The ship is being loaded with freight, and the freight is being put on the ship. The ship is being loaded with freight, and the freight is being put on the ship.

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Machines Create Employment Problem

At the same time, we are now finding that the machine is doing all the work that was formerly done by the farmer. The machine is doing all the work that was formerly done by the farmer. The machine is doing all the work that was formerly done by the farmer. The machine is doing all the work that was formerly done by the farmer.

And so there we have a problem. The machine is doing all the work that was formerly done by the farmer. The machine is doing all the work that was formerly done by the farmer. The machine is doing all the work that was formerly done by the farmer. The machine is doing all the work that was formerly done by the farmer.

probably the machine will be doing all the work that was formerly done by the farmer. The machine is doing all the work that was formerly done by the farmer. The machine is doing all the work that was formerly done by the farmer.

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It is now time to go to the machine. The machine is doing all the work that was formerly done by the farmer. The machine is doing all the work that was formerly done by the farmer. The machine is doing all the work that was formerly done by the farmer. The machine is doing all the work that was formerly done by the farmer.

An Archeologist Looks at Palestine

By NELSON GLOCK*

PALESTINE is the name left by the Philistines of the land of the sea.

Along its southern coastal plain and the shore of the Mediterranean, they established colonies and cities.

In Ashkelon, or Ascalon,† and Ashdod (Lod) and Ekron (Aqir), in Gaza and Gath, this sea people from Greek islands struck deep roots and flourished.

With their chariots of iron, as frightening then as the first tanks were in modern warfare, and with their other advanced martial equipment, the Philistines brought fear upon the land.

Eastward and northward as far as Bethshan (Beisan) they surged, to the injury of Israel and the death of King Saul and his sons.

To heap insult upon their enemy, they impaled the royal bodies on the walls of this fortress flanking the approaches to the Jordan Valley.

Strife Since Before Goliath's Time

The Philistine giant, Goliath of Gath, clad in a glistening suit of armor, became a symbol of the awe these invaders inspired.

Palestine then became again what it had previously been, and what it has remained down to our very day, a cockpit of unending conflict.

The struggle between those who held the keys to its gates and those who sought to enter or re-enter its portals has never subsided.

The contentions have been many, but the same old claims remain: to the landless and the hungry have sought the haven of its boundaries. Desert dwellers and the armies of expanding empires have striven and perished for the sake of the plenty and power that seizure of its soil has promised.

The patrimony of Palestine has never spelled peace for long.

And out of the endless upheavals in which nations of the past have spent their substance and themselves in sorry rivalries, naught has survived of the glitter of glory or the pomp of power save the rubble of ruined cities piled hill-high above each other.

These ancient ruins are monuments to the hurts and hatreds and madness of men.

Even more than men, with their appetites and ambitions, have ideas collided in Palestine. In this crossroads of continents and arena of empires, only the ideas of God and good as first revealed to Israel have proved to be imperishable.

The only thing permanent which has issued

from the travail of Palestine is the increased understanding of moral imperatives.

The developing appreciation of God as we know Him today has been its only lasting achievement.

On the Beaches of Ascalon Today

All this was in the back of my mind when I stammered recently along the beaches of Ascalon and looked at the jumble of ruins reaching down to the shore of the Mediterranean (map, page 742).

Columns, bricks, and pottery of many widely separated periods litter the landscape.

At the time of Christ, Ascalon was a rich and riotous Roman city, with Greek culture and a sophisticated population of pagans and Jews.

Herod the Great was born there, and it was the residence of his sister, Salome.

He heaped gifts upon Ascalon, as was also his fashion elsewhere, adorning it with fountains, baths, temples, and harbor works constructed in Greek style.

After experiencing various disasters and occupations, from Philistine times onward, Ascalon was lastingly demolished, about seven centuries ago, by the great Moslem warrior, Sultan Baybars.

Since then, sand dunes indifferent to antiquity have drifted over columns, which stick out of the dunes like cannon from a lumbered ship. Great blocks of masonry have rolled down the side of the ridge on which the town was built and come to rest at the very edge of the sea or lie beneath the clear waters near the shore (page 746).

In the classical temples of Herodian Ascalon, even as in the earlier Philistine sanctuaries there, primitive and passionate practices of fertility cults prevailed.

A Mermaid Goddess

The historian, Herodotus, informs us of the special place occupied in the pagan pantheon there by Derceto, the fecund goddess with the face of a woman and the body of a fish.

I found a similar goddess in the Nabataean temple of Khirbet el Tannur, in Trans-Jordan, when excavating there on behalf of the Ameri-

* Dr. Glock, now President of Hebrew Union College, Cincinnati, Ohio, was Director of the American School of Oriental Research, Jerusalem, 1937-38; 1936-41, 1942-45.

† The Ashkelon of Old Testament times later became Ascalon. The later and more familiar spelling is used throughout this article.



THE BEACH AT TEL AVIV

Under a Benign Mediterranean Sun Tel Avivans Head for Relaxation at the Seashore

For many years, the Tel Avivians have been known for their love of the sea. The city is built on a narrow strip of land, and the sea is always within reach. The people of Tel Aviv have a long tradition of spending their leisure time at the beach. This tradition has become even more popular since World War II, when many people have moved to the city from other parts of the country. The beach is now one of the most popular places to go in Tel Aviv.

As soon as the sun is shining, the people of Tel Aviv head for the beach. They go there to relax, to enjoy the sun, and to spend time with their families and friends.

The Nubatan trade route, a number of feet, led from Tiro-shed in the southern Palestine to Gaza and Ascalon. From there it went to the coast of Africa where exports to Egypt, Rhodes, Italy and the west.

Ascalon's Glory in Ocean Services

Going to the beach at Ascalon, you will find a beautiful view of the sea. The beach is very clean and the water is very clear. The people of Ascalon have a long tradition of spending their leisure time at the beach. This tradition has become even more popular since World War II, when many people have moved to the city from other parts of the country. The beach is now one of the most popular places to go in Ascalon.

Bite into the common onion of Ascalon and know the fate of frail mortals and their destiny.

On the sand of the beach, which is twelve miles long, the people of Ascalon, we saw Ascalonians meeting their pets and

their dear family. We sat on the sand and watched the people of Ascalon as they approached the shore. The beach was very crowded and the people were very happy.

The beach people of Ascalon were very happy. They were very healthy and they were very strong. They were very happy and they were very strong.

There, as in other parts of the coast, they were very happy and they were very strong. They were very happy and they were very strong.

For long they heeded the voice of Israel. They had a great love for the land of Israel. They had a great love for the land of Israel. They had a great love for the land of Israel.

I heard in Ascalon the voice of the God of Israel. I heard the voice of the God of Israel. I heard the voice of the God of Israel. I heard the voice of the God of Israel.

Majority report of United Nations Special Committee on Palestine recommended that Palestine be divided into an Arab State (shown in dark gray) and a Jewish State (shown in light gray). The area of Jerusalem would be administered by an International Trusteeship.



Russell has seen which were so much and have been caught and compelled to reach. Green crops are thriving where before was over-cultivated before. Wetlands are being reaped in productive crops.

And it ever the present political importance can be achieved and the dream of bringing salt waters from the corners of the Jordan by canal to the Negev can be realized, the desert there will become a fruitful new land. The scheme is certainly physically feasible.*

The example of Bet Hagarva is followed in the desert salt wastes at the Jordan and the Dead Sea, a shallow lake, the great salt pans of Palestine. It is, however, a demonstration how the apparently impossible can be accomplished.

Some of the water of the Jordan River, still sweet even when approaching the point of its disappearance into the arid depths of the Dead Sea, is diverted over beds of consolidated soil in the lowest reaches of the Jordan Valley (page 711).

This process is repeated again and again till a sufficient quantity of minerals has been leached out and the sweetened soil can sustain plant life.

On the basis of such toil, the young Jewish settlers of Bet Hagarva are planting and harvesting lush crops where previously no land was tillable or settlement of any kind imaginable.

Lush orange groves, with ownership almost equally divided between Arabs and

* See "The Geography of the Jordan," by Nelson Glueck, *National Geographic Magazine*, December, 1934.



Megidda's Ruins Are Significant to History of the Remote Past

In this town, the site of an ancient battle of the Bronze Age, would be an excellent place. Between them are the ruins of an ancient city, the site of an ancient battle. The town is a good example of the early city of the Bronze Age.

Jews, delight the eye and delight the ear, one of the chief exports of the country.

Oranges for Sale—at Damascus Gate

In the orange season, which lasts almost six months, I have to walk from my house at the American School of Oriental Research, Jerusalem, to the nearby Damascus Gate, and purchase oranges from the big boys for sale at the opposite corner.

Orange stands are set in the narrow streets of the ancient Arab and Jewish cities of Jaffa and Tel Aviv and are loaded with oranges for export.



New Nabbis a Monk Lowers a Canteen to Show the Depth of Jacob's Well

The monk is a member of the Order of St. Basil, a monk of the monastery of St. Basil, near the city of Jerusalem, who has been in the city since 1910.

From Haifa larger quantities are exported. Haifa harbor, equipped with extensive artificial breakwaters, is the largest and best along the entire coast of Palestine.

Because of the conspicuous lack of natural harbors, it is no wonder that in the past Palestine failed to develop as a maritime power, that role being assumed by Phoenicia to the north.

Haifa is a beautifully modern city, whose residential sections climb up to and over the top of Mount Carmel.

Pipe Lines Bring Oil to Haifa

A great pipe line brings oil from Iraq to Haifa, where much of it is refined before being pumped into tankers for shipment to England. A parallel pipe line is being laid to bring much larger quantities of oil from the eastern deserts.

With its pivotal importance for oil and industry, for commerce and imperial strategy, Haifa is bound to grow mightily, unless political calamities retard its development.

Haifa is a cultured and conglomerate city. Huge retreats of a gasoline refining plant vie for attention, for instance, with an exquisite Bahai garden.

The cooperation of Jews and Arabs in Haifa is an earnest of reconciliations which could exist in all of Palestine and make unnecessary the partition of this tiny fragment of a country.

The view from Mount Carmel over the white limestone city and the deep-blue waters of the Mediterranean has always made me want to own a home there.

While rock was being blasted for the breakwaters in Haifa harbor, prehistoric caves were discovered on the western slope of Mount Carmel.

In these caves were found skeletons of Palestine's earliest known humans, of a hitherto-unknown type, famous now as the Palestine Man. He lived 50,000 or more years ago.

Not far away, on the shore of the Mediterranean, are the massive ruins of the Crusader castle of 'Athlith. It was built, completed, and destroyed during the 13th century after Christ. About eight miles south of Haifa it stands on a promontory projecting into the sea, with wonderful beaches on three sides.

Among the ruins, composed of remnants of massive walls, huge subterranean vaults, and great ruined towers, a few Arab squatters live in squalid huts.

Near by is a prison camp and an immigrants' reception center. A small Jewish village, too, is located in this area.

Less than 15 miles south of 'Athlith lie the ruins of the great Roman and Crusader city of Caesarea, built originally by Herod the

Great in 25 B. C. as the most important port of Palestine.

Another Caesarea was built by Herod Philip, a son of Herod the Great, at the Baniyas source of the Jordan River. This city was called Caesarea Philippi (Baniyas) to distinguish it from the other, which became known as Caesarea Maritima.

Like the Crusaders after them, and the Egyptians and others before them, the Jews under Herod the Great and his sons fashioned cities as Nature fashioned mountains. They were built to last forever, and have indeed survived for millenniums.

The best example of what such cities looked like is furnished by the remains of the Roman city of Gerasa (Jerash) in Trans-Jordan, with its theaters, temples, forum, stadium, and triumphal gateway.

In this coast was Caesarea Maritima created. Of great beauty, size, and importance in its beginnings, it was a city also of massive dimensions and crucial strategic value at its end in the Crusader period. It was destroyed by the Moslems A. D. 1291.

Every town that Herod the Great touched he transformed into the shining semblance of the Hellenistic-Roman cities he knew and loved, outside the domain of his own four counties.

Over the great hill site of Samaria (Sebastiya), where Omri had built the capital of Israel, Herod the Great, with the magic wand of his energy, wealth, and power, called into being a magnificent metropolis.

Herod called the city Sebastia. That was the Greek equivalent of Augustus, the emperor under whose authority he reigned at the time. He had named Caesarea in honor of that same Caesar Augustus.

Holy City Beyond Compare

Herod's passion for building resulted in his changing the very aspect of Jerusalem. Under his hands it became a majestic Greco-Roman adornment to his dominion.

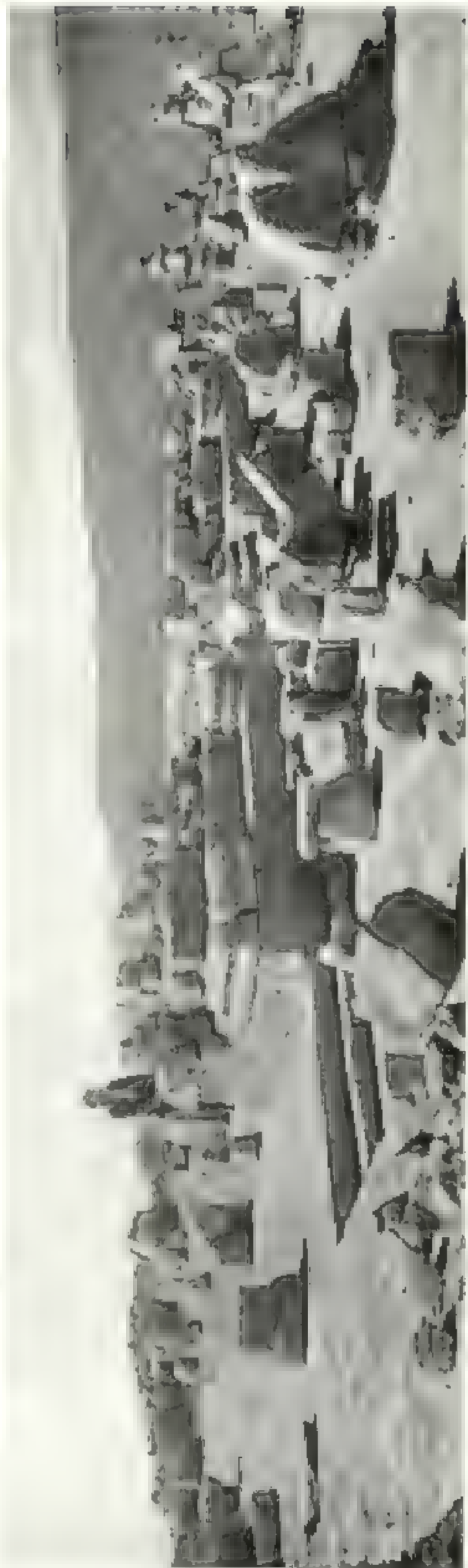
His crowning achievement there was the construction of the third Temple. Architecturally, it could easily have served as a sanctuary for pagan gods. The golden eagle he had set above its great gate served to accentuate that similarity.

This temple was not, however, actually completed until A. D. 63-64. It was destroyed by the Romans six years later, when they succeeded in putting down the fierce Jewish rebellion that flamed up against them.

The temple was never rebuilt, but the massive stones of the walls of the temple area can still be seen. They appear in the foundations



Strately Flooded Banks of Ancient Nabata's Sands. W are the Palatians New and Ashore
The



Catholics before Christ, Nabata's Temple of Khirbat al Tannur
Locals in the

of the 16th-century wall, which at present surrounds the Old City of Jerusalem.

If I forget thee, O Jerusalem, let my right hand forget her skill. Let my tongue cleave to the roof of my mouth, if I remember thee not, if I prefer not Jerusalem above my chief joy (Psalm 137: 5, 6).

City of infinite beauty, built in antiquity and ageless, Jerusalem is without compare. It combines the gleam and glint of the new with the patina and pulse of the past, and is full of contrast and color.

Exposed to the perplexities and perils of a turbulent and tragic present, it has endured and become strong with the experiences of immortal millenniums.

Still the chief seat of government in Palestine as it already was in the days of David of old, Jerusalem remains the pivotal place of the Near East and the capital of the conscience of much of mankind.

The grim barriers of barbed wire which block its paths today, the bullets and bombs evoked by passion and despair, can still not destroy the hopes for peace in Zion, whence the word of God went forth.

Stand on the summit of Mount Scopus and see the extraordinary city below, as fair a sight as can be seen on the face of the earth.

Or turn eastward from your point of vantage and let your gaze sweep over the many-hued wastes of the Wilderness of Judah, pause over the deep blue of the lowest sea, known as the Salt, or Dead, Sea, and come to rest on the purplish mountains of Moab, where Moses once stood and looked westward, never to cross over to the land of his longing.

Amazing Mosaic of Old and New

Now descend and wander through the Siet of the Old City, with its bedlam of sounds and full-bodied smells, where donkeys and sometimes camels contest with you for footing in the twisting and aromatic alleys.

In the modern sections of the city, too, you may be bewildered by a babel of languages, with Hebrew, Arabic, and English prevailing.

Bookstores, largely Jewish, display a range of books which pays high tribute to the cultural interests of the population.

Next to a modern hotel stands a windmill, long unused. Old olive groves still grace quiet corners.

Synagogues, churches, and mosques of charm, and in part of haunting beauty, abound in this sanctuary of Judaism and Christianity, which is also one of the sacred cities of Islam.

The Wailing Wall and the Garden of Gethsemane, the Mosque of Omar and the magnificent Government (Rockefeller) Archaeo-

logical Museum, the gates of the Old City and the house-studded hills of the New, the vistas of the Jordan Valley and the highlands of Trans-Jordan beyond—these and more are part of the amazing mosaic which makes up the picture of Jerusalem.

It is a city of clarity, yet of sharp contradictions. There is a tang in its atmosphere, evoked out of its background and its promise, that makes life in Jerusalem, as indeed in all of Palestine, a deeply disturbing, frequently dangerous, and yet wholly entrancing spiritual and physical adventure.

Most of the water for Jerusalem is pumped up to its 2,500-foot-high mountain position from the coastal plain. The headwaters of the 'Anja River, which flows past the north end of Tel Aviv into the Mediterranean Sea, are employed in part for this purpose.

Close by the springs which create the river, some ten miles northeast of Jaffa, is a hillock topped now by the ruins of a castle, with the green of a government tree nursery in the fields below setting off its time-strengthened gray. This is the site of Antipatris, built by Herod the Great in the name of his father, Antipater.

Later Crusaders and much earlier Canaanites exploited the city's strategic importance. Excavations have exposed pottery turned on a wheel and then baked in a kiln to enduring perfection almost 5,000 years ago.

Just below the modern Hebrew University and the magnificent Hadassah-Rothschild Hospital on Mount Scopus, both of which are open to people of all faiths, hark Arab villages.

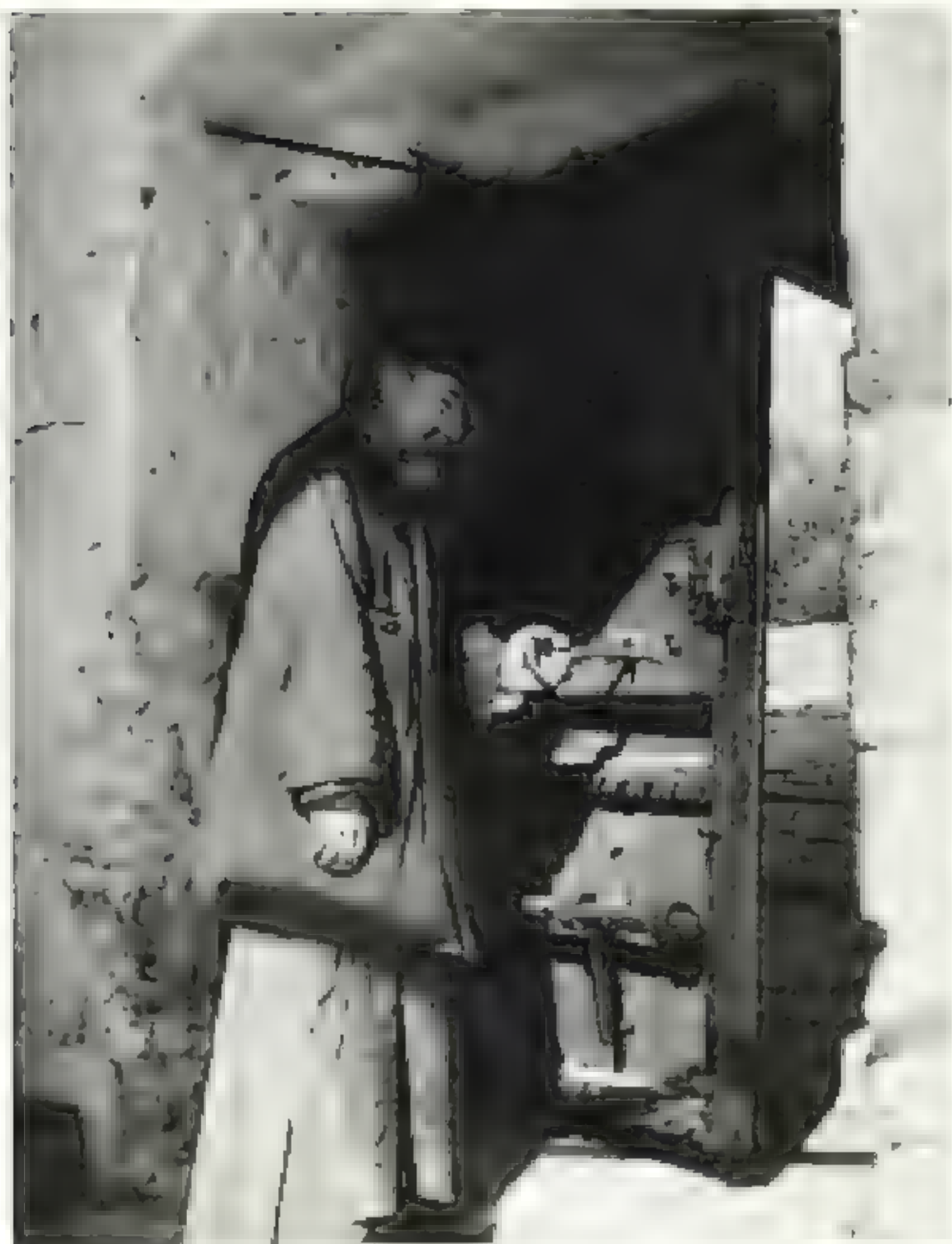
Superficially, they seem unchanged by the political, cultural, and economic revolutions taking place in Palestine. Actually, they and their like are being influenced for good and ill by the impacts of Western civilization.

Starting out from Mount Scopus, we walked through the hills of Judah for a few miles to the Arab village of 'Anata, which is probably the site of Bithlza! Anathoth, the birthplace of the prophet Jeremiah.

'Anata can be reached by a rickety bus today. It has a Diesel engine for its mill now. The days of grinding grain or pressing olives by hand are largely gone.

Monasteries Cling to Canyon Sides

It is no longer true, if indeed it ever was, that "East is East and West is West, and never the twain shall meet." In the oil of the East and the processes and products of the West, let alone the interchange of not easily measurable influences, there is union now. It existed long ago in the continuous cross-fertilization of endless caravans of expanding cultures.



Between Two Worlds Swings This Massive Iron Door

When the door was found, it was in the ruins of the Temple of Solomon, in Jerusalem. It was found in the ruins of the Temple of Solomon, in Jerusalem. It was found in the ruins of the Temple of Solomon, in Jerusalem.

place where the door was found and named it the "Door of the Temple of Solomon."

He said the door was found in the ruins of the Temple of Solomon, in Jerusalem. It was found in the ruins of the Temple of Solomon, in Jerusalem. It was found in the ruins of the Temple of Solomon, in Jerusalem.

Some of the ruins of the Temple of Solomon, in Jerusalem. It was found in the ruins of the Temple of Solomon, in Jerusalem. It was found in the ruins of the Temple of Solomon, in Jerusalem.

A short distance from the ruins of the Temple of Solomon, in Jerusalem.

One of the ruins of the Temple of Solomon, in Jerusalem. It was found in the ruins of the Temple of Solomon, in Jerusalem. It was found in the ruins of the Temple of Solomon, in Jerusalem.

long and narrow street, with a wall on one side and a wall on the other, leading to the door. It was found in the ruins of the Temple of Solomon, in Jerusalem.

Jericho an Emerald Oasis

Continued from page 109. The door was found in the ruins of the Temple of Solomon, in Jerusalem. It was found in the ruins of the Temple of Solomon, in Jerusalem. It was found in the ruins of the Temple of Solomon, in Jerusalem.

Little wonder, then, that the door was found in the ruins of the Temple of Solomon, in Jerusalem. It was found in the ruins of the Temple of Solomon, in Jerusalem. It was found in the ruins of the Temple of Solomon, in Jerusalem.

All about the door, in the ruins of the Temple of Solomon, in Jerusalem. It was found in the ruins of the Temple of Solomon, in Jerusalem. It was found in the ruins of the Temple of Solomon, in Jerusalem.

On the left, the door was found in the ruins of the Temple of Solomon, in Jerusalem. It was found in the ruins of the Temple of Solomon, in Jerusalem. It was found in the ruins of the Temple of Solomon, in Jerusalem.

When the door was found, it was in the ruins of the Temple of Solomon, in Jerusalem. It was found in the ruins of the Temple of Solomon, in Jerusalem. It was found in the ruins of the Temple of Solomon, in Jerusalem.

It was found in the ruins of the Temple of Solomon, in Jerusalem. It was found in the ruins of the Temple of Solomon, in Jerusalem. It was found in the ruins of the Temple of Solomon, in Jerusalem.

At the center of the door, in the ruins of the Temple of Solomon, in Jerusalem. It was found in the ruins of the Temple of Solomon, in Jerusalem. It was found in the ruins of the Temple of Solomon, in Jerusalem.

architects of El Yusef each new city built by restoring the remains of the previous destroyed one for its foundation.

Stone Coffins Make Building Blocks

In the Middle Ages, on top of this wall was built a fortress. Its chief defensive blocks were great stone coffins stolen from a Byzantine cemetery of about the 5th century after Christ. These sarcophagi were placed end on end and filled with stones to form the main courses of the fortress.

Thus, literally, the coffins of one age served the needs of another. Furthermore, in the debris around the foundations of this fortress we found pottery of many kinds, some of which were in the middle of the 14th century.

A few miles away is the village of Moudun, called the Village of the Moslems, because latter known to Arab geographers. The kings of the world were to come together there on the day of divine wrath, known to the Moslems as the day of Armageddon.

We looked at the remains of the village of Sakhnin and of the earlier Canaanite high place excavated by the Oriental Institute of the University of Chicago.

From the eastern part of Megiddo one can see far over the plain of Esdraelon. Nazareth is clearly visible on its hill.

Jews and Arabs Study Agriculture

In the distance to the northeast, the hump of Mount Tabor rises high above the fertile plain of its base. Tradition localizes the Transfiguration of Jesus on its top.



She Holds an Arsenal of Palestine's Future

Young Dora, holding a tin of paint, is a child of a Tel Aviv and her mother is the first Jewish architect in the country. Her mother is a woman of many talents. She is a painter, a sculptor, a writer, and a poet. She is also a woman of many other talents.

On road we were taking to Tiberias passed the Kadoorie Agricultural School for Jews. This and another one for Arabs at Tulkarm were established through a grant left for the advancement of agriculture in Palestine by Kadoorie, a Jew of considerable wealth.

An Arab, who a farmer, was growing his tobacco in the school with a view of contributing to the same type of primitive agricultural plan his ancestors had used. He would not learn modern practices, if they were recommended, better than his own.

It was exciting to look at the school of the future, the school of the future of the future.

On the mountain I had taken, he was a man of the future of the future of the future.



A Jewish Feast Symbolizes Hope of a Peaceful Palestine

Scattered among the olive groves and a Jewish settlement was to be seen the first of a new Jewish settlement. They celebrate the opening of a new Jewish settlement, Natania. The Jewish settlement is a small town, and the Jewish settlement is a small town. A tale of Turkish rule in Palestine is a tale of a Jewish settlement.

the sun, a crucial battle was fought between the Crusaders and the soldiers of Saladin. The Christian army was annihilated, and the power of Islam prevailed in Palestine.* Christian Jerusalem, however, the holy city, could not be conquered.

In Biblical times, the mountain Hattin was probably the site of Madon, but it was occupied long before then, too. On the western bench of the raised plateau, below the wall of the massive Bronze Age tower, I found great Achelean axes of flint, with which prehistoric men more than 100,000 years ago tiller the soil and clapped it each other.

From the summit of Hattin we could look down upon the fair fields of German-set and Arab, the lake. Listen to the words of Josephus, a Jewish nobleman who governed this area in the average century of the time of Jesus.

Now the lake of German-set is called Hattin. The center of the lake is a small island, and the water is very deep.

There is a small island in the lake. The center of the lake is a small island, and the water is very deep. The lake is very deep, and the water is very clear. The lake is very deep, and the water is very clear.

Many new white limestone buildings are softening the originally somber city of Tiberias. Built by Herod Antipas, son of Herod the Great, on the western shore of the Sea of Galilee.

The natural beauties of this lovely lake and its luxuriant shore line are dwarfed by its religious associations, as the holy past towers above the uncertain present throughout these old new Bible lands.

*See, in the National Geographic Magazine, "The Crusades in the Holy Land," by William L. G. "The Crusades in the Holy Land," by William L. G. "The Crusades in the Holy Land," by William L. G.

For more information, please refer to the National Geographic Magazine, "The Crusades in the Holy Land," by William L. G.

Arab Land Beyond the Jordan



It's Down on the Desert, and Up Goes the Flag of the Arab Legion as Forces Enter
on Way to the Jordan Valley. The Arab Legion was formed by the British and French in North Africa.



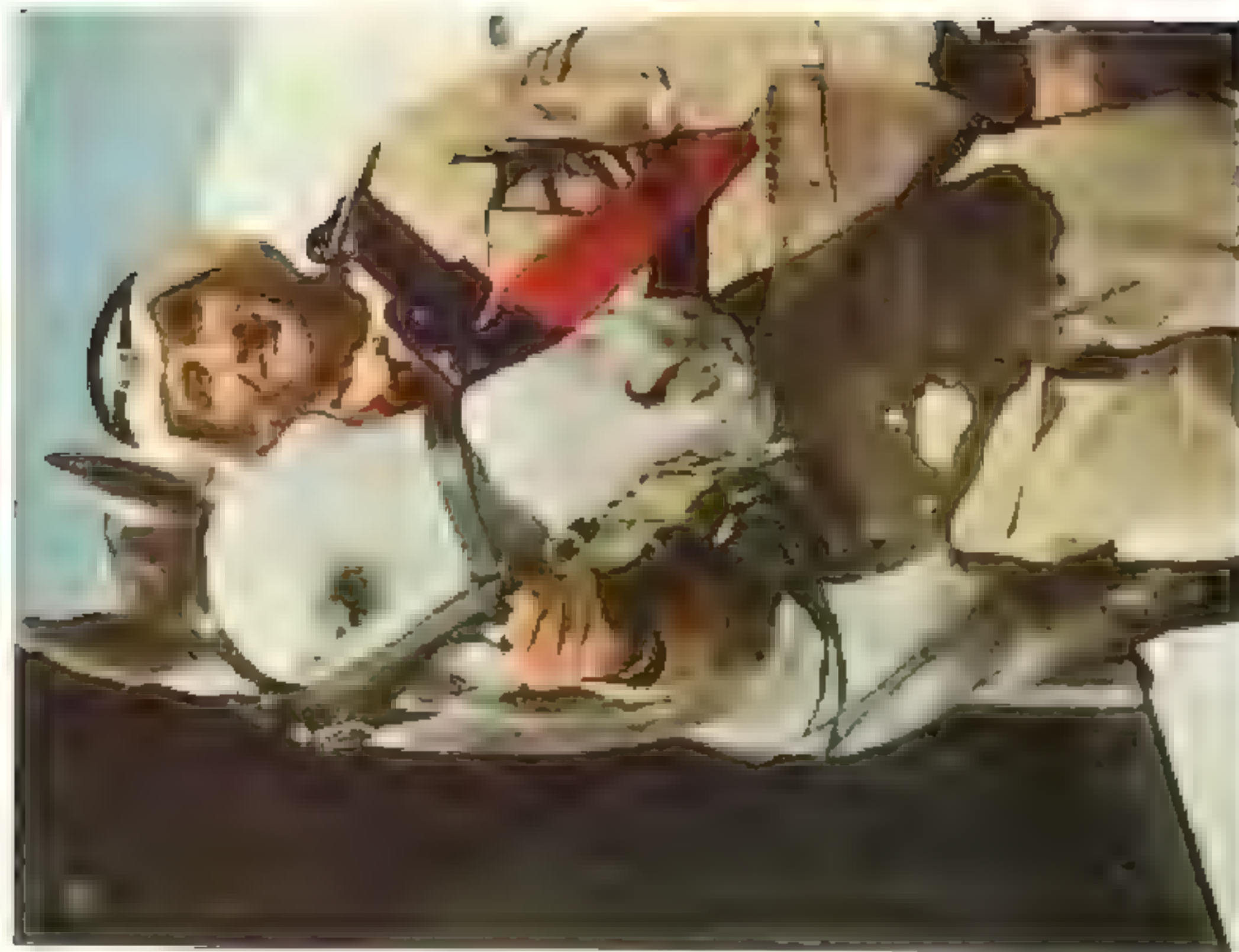
The King of the Garden. His Highness the King of the Garden, His Highness the King of the Garden, His Highness the King of the Garden.

the King of the Garden. His Highness the King of the Garden, His Highness the King of the Garden, His Highness the King of the Garden.



The Arab Legion Has MR's, Too

At both Enghel and Al-Jarrah, the MRs take their headquarters in the houses of the Arab Legion, and in the latter case, in the houses of the Arab Legion.



Prize of the Mounted Police Sergeant Is His Arab Mare

Some of the mounted police sergeants have won prizes for their Arab mares, and these mares are often sold for high prices. The mares are often sold for high prices, and the mares are often sold for high prices.



Scotchmen Are Aboard and More than a Yard Wide

When the ship was at anchor, the Scotchmen were seen to be at work on the deck, and the ship was at anchor. The ship was at anchor, and the Scotchmen were seen to be at work on the deck. The ship was at anchor, and the Scotchmen were seen to be at work on the deck.



Me and my Aunt Fozon Display Their Red and White

Headscarves. The red and white striped shawl is a traditional garment worn by women in the region. The photograph is a color print, showing the vibrant red of the shawl and the light colors of the dresses.



Removal of the Holy Family and the Virgin Mary to the Temple in the East

The scene is set in a large, ornate building with a high, arched ceiling. The Virgin Mary is seated on the left, holding the young Mary. They are surrounded by other figures in traditional attire, including a man in a white robe and a woman in a pink robe. The background is dark, and the foreground is filled with figures and a large, ornate structure.



Sketches of the Wedding March, Hiding the Bride, and Soft Carriage, Before the Tent

For the wedding of the bride and groom, the bride and groom are seated in a carriage, and the bridesmaid and groomsmen stand behind them. The bride is wearing a white dress and veil, and the groom is wearing a dark suit. The bridesmaid is wearing a white dress, and the groomsmen is wearing a dark suit. The background is a simple, stylized landscape with a red and white striped canopy or tent structure.



Chair of the Library of the New York Public Library

A. J.



Left and Son Dye in The Colorful Den, One of the Ancient Tombs of Petra
The illustration shows the interior of the 'Colorful Den' in Petra, a large, dimly lit cave with colorful rock walls. Two figures, a man and a woman, are standing in the center of the cave. The man is wearing a red robe and a white head covering, and the woman is wearing a blue robe and a white head covering. They are both looking towards the right side of the frame.

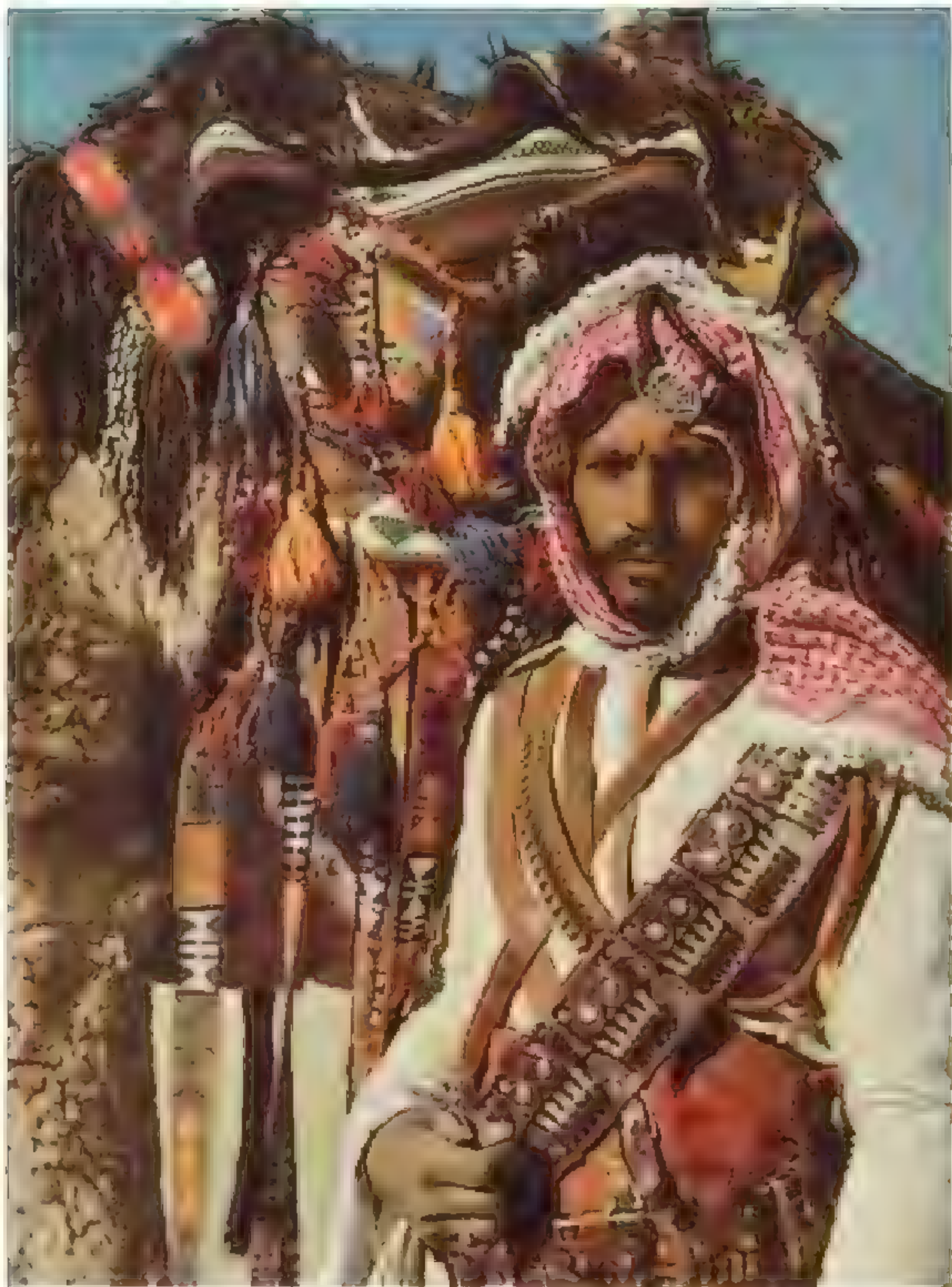
The Arabian Nights in Algeria



Wife of the Badly Dressed Man. This Woman at 10 was
A Woman of the Badly Dressed Man. This Woman at 10 was



Their Blood Is Circassian, but They Are Loyal Subjects of an Arab Kingdom.
The Three Men in the Uniforms are the Three Men in the Uniforms of the Arab Kingdom.



A Member of the Anti-rider Desert Patrol Is a Perambulating Arsenal

The man standing next to the camel is a member of the Anti-rider Desert Patrol. He is a member of the Bedouin tribe and is a member of the Anti-rider Desert Patrol. He is a member of the Bedouin tribe and is a member of the Anti-rider Desert Patrol. He is a member of the Bedouin tribe and is a member of the Anti-rider Desert Patrol.



A View of the Cathedral of La Cruz, Mexico, from the Plaza de San Juan, 1880.

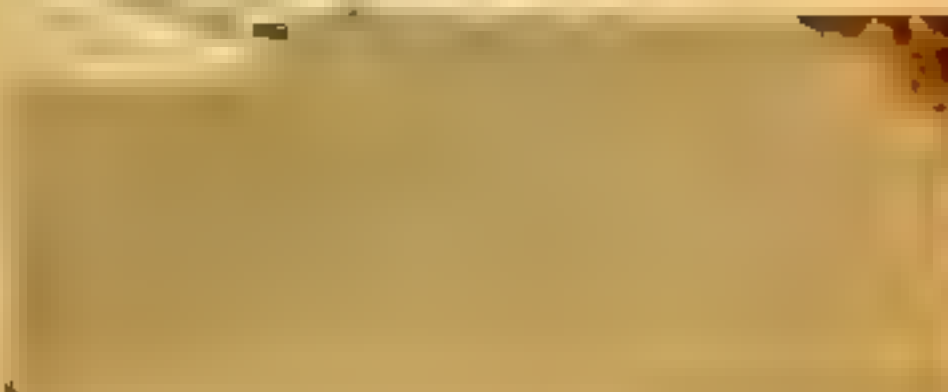


High on a Mountain Side, Between the Dead Sea and the Desert Towers the Old Crusader Castle of El Kerak

It was only about 1140, and was one of the most important of the Crusader towers. The tower was built by the Crusaders in 1140, and was one of the most important of the Crusader towers. The tower was built by the Crusaders in 1140, and was one of the most important of the Crusader towers.



These men are really as they are called, these men are called "Heads" in an





Haunting the Greek Villager Is the Constant Specter of Fuel Shortage

Homeward bound from the fields, the girl leads a donkey and a pony laden with produce from the fields and hunting. Even green oak along the roadside is cut. In the Vouraikos River area, fuel is scarce and the people are forced to cut the brush for fuel.

Nowhere in the peninsula the country is so barren. Cutting of the brush for fuel and the constant grazing of the country by goats and sheep has also reduced most of the original hardwood forest to brush a foot or two in height.

Most of the maples, hackberry, myrtle, and other hardwoods are cut and used for fuel by the hungry animals. Only the harsh, scrubby oaks and an occasional winter tree remain to protect the rocky soil from the driving winter rains.

Fuel Seekers Comb Countryside

Under such conditions, the worry of being without fuel is a constant specter that wakes the Greek villager. Everything that will burn is cut and used for some other purpose is carefully gathered.

While the men and women are in the fields, the children comb the surrounding countryside

for brush. Even the green oak brush along the roadside is cut and packed home to cook the evening meal or to heat the beds at night.

In months of travel in Greece I never saw a donkey or the small Greek pony on its way to the village without a load on its back. If a village is in a mountainous area, the donkey is loaded with sticks or brush for fuel.

In the winter months, the wood is harvested and threshed, almost the whole village moves up into the canyon to the fir timber to get out the winter fuel supply. While the men and older boys fell the trees, the women and children cut them up in lengths short enough to be loaded on the donkey.

During the winter months, the donkey is loaded with brush and sticks, and is driven out over several miles of mountain trail, all so heavily loaded that it seems only the ears protrude.



A. J. H. H. H. H. H.

Home Weaving, a Lost Art in Many Countries, Is an Everyday Task in Greece

There is no cloth to be had in the village. Each home has its own loom. The women weave the cloth for their own use. This is the only way to get the cloth. The women weave the cloth for their own use. This is the only way to get the cloth. The women weave the cloth for their own use. This is the only way to get the cloth.

It would take time for the mountain villagers to restore their forests to the point where they would have sufficient fuel. They could do it very easily. A village may want to set aside a few acres of oak brush for each village and keep them from being grazed by sheep and goats.

From protection the oak brush would then grow to timber and produce several times the amount of fuel as now. If there were two or three such areas for each village and the cutting alternated between them, in a few years there would be ample fuel for all.

Ills of Agriculture Are Fundamental

Many of Greece's real problems, poor health and poverty with all their attendant evils, are traceable to the ill of her agriculture.

Malaria would largely disappear if the swamplands were drained and the upland farm lands were better managed.

A diet of bread should not be necessary

where such a variety of fruits and vegetables can be grown under irrigation.

Cheese, milk, and other dairy products should be plentiful in a country where irrigated pastures can equal any in the world.

Widespread poverty from farming eroded lands should not be necessary where a few simple conservation practices generally applied, would double or quadruple the yields of agricultural crops.

With much of the country still potential forest land, there is no reason to feel that

these are the challenging problems which confront Greece. Unless something is done about them, the health of most of the people will continue to be poor and living standards low, regardless of how much is spent to modernize and repair her industries and public facilities.

For additional articles on Greece, consult "Greece," page 10, and "The National Geographic Magazine," page 10.

Carnival in San Antonio

By MAMON SUTHERLAND

With Illustrations by Staff Photographer J. Baylor Roberts

SINCE its foundation as a Spanish colonial outpost San Antonio has been the Southwest's capital of carnival. Here people from the Deep South, the West, and Mexico have met to have fun.

Under the flags of Spain, Mexico, Texas, the Union, and the Confederacy, San Antonio has lured adventure seekers of many lands.

Once the rules allowed cowboys to drive 'well-behaved' ponies up to the bar of the Buckhorn Saloon. Now the Buckhorn is a curio shop (page 813), and the other bars are beer parlors or package stores, but carnival continues.

Each year in April the city celebrates the week-long Fiesta de San Jacinto, commemorating the battle in which Texas won her independence (Plates VI and VII).

Nothing but his city's flash floods seems to surprise the San Antonian. For tolerance and urbanity he yields nothing to New Yorkers or San Franciscans.

He may be a retired general, an oil baron, one of the cattle gentry, a descendant of Spanish hidalgos, a German brewer, or an obscure Joe Doaks. No matter; on balmy evenings he is out in shirt sleeves promenadeing Houston, Commerce, or St. Mary's Street, or Alamo Plaza. Everybody I ever knew in San Antonio had a good time.

Beautiful but Treacherous River

To see San Antonio to good advantage visit its river by moonlight. Here is the Venice of the Texas plains. Staircases from downtown bridges lead to a canyon 20 feet below street level. Soldiers on grassy slopes and rustic benches woo their girls beneath the misty, fairyland glow of floodlights concealed in the trees. Other couples go riding on a concrete-lined, flat-bottomed pleasure boat. Gondolier-propelled like Venetian canalboats, these parade below busy bridges (page 827).

To know San Antonio, know the river that cradled the city. It provides no electric power, no tall ships sail into docks. Barely 30 feet wide and two feet deep, it is crooked and treacherous. Whether it brings flood or visitors, the city loves its river.

Twice within memory the San Antonio River has caught a sleeping city asleep. A major disaster such as that of September, 1921, was partly prevented in the flood of September, 1946, by Olmos Dam, a barricade

built in the intervening years, and by a cutoff channel by-passing the business area's "big bend."

The river bubbles up from springs on the outskirts of the city and its waters flow 130 miles to the Gulf.

Coiling through the city, the stream takes 15 miles to travel seven. In the business district it snakes around a three-quarter mile loop only three blocks short of being a complete square. The downtown visitor confronts its lanks wherever he goes. Indians who noted its dizzy course called the river "Drunken Old Man Going Home at Night."

Tall Trees Beside Skyscrapers

Having left San Antonio in 1923, I remembered the river as a sluggish, slimy green ditch. Upon my return recently I found it transformed by the beautification project of 1939.

The river's face lifts dredged out rusting wagon wheels, cannon balls, and pistols. Then they shored up the banks with concrete walls and laid out flower beds and flagstone walks.

Today every vista shows a pleasing curve; shady walks weave among old trees. Gnarled figs, weeping willows, and palms shade a park a mile and a quarter long. Tall cypresses and pecans, soaring from sunken gardens, arch the river. Retama, a spiny desert shrub, explodes in yellow blooms.

I went down to the river one starlit morning when mockingbirds saluted the dawn. Beyond the landscaped portion a footpath led me into a jungle lining residential areas. Carrizo, a bamboo-like grass, grew ten feet high. Mossy water growths waved sea-green beards.

Occasionally a mansion spread a clipped lawn to the bank. Elsewhere the jungle maintained an enclave within the city. Only fat city whistles and the rumble of board bridges broke the wilderness spell.

The Alamo, Shrine of Texas Heroes

San Antonio grew up along its river; beside it the Spanish padres founded five missions.

Yaguapana, the Indian village that preceded San Antonio, was already old on May 1, 1718, when Father Antonio de San Buenaventura Olivares established Mission San Antonio de Valero on the site of the present Alamo. Four days later a Spanish military expedition founded the neighboring Villa de Bejar. From



Come Are Cowboys Who Drove Ponies Up to the Bar; the Buckhorn's Now a Cigar Store

[illegible]

When the Mark heroes, these names stand

When Robert Taylor is awarded a Nobel Prize, I will be the only American physicist to have won it. I will be the only American physicist to have won it. I will be the only American physicist to have won it.

[illegible]

When the first of these two conditions is satisfied, the first of the two conditions of the theorem is satisfied. When the second condition is satisfied, the second condition of the theorem is satisfied. When both conditions are satisfied, both conditions of the theorem are satisfied. When neither condition is satisfied, neither condition of the theorem is satisfied. When one condition is satisfied and the other is not, one condition of the theorem is satisfied and the other is not.

From abroad as well as from place names, all sorts of Americans have become aware of these things, yet a few have even visited the Alamo.

We have 400,000 in from Latin America and even Mexico, the World's customer gold mine. Lower block costs per rev. unit.

remembering this was once a church. They
seem to hear Dr. G. H. D.

Her words reminded me of a story I ran across in 1921, when I was a newspaper reporter in San Antonio. The school boys were preparing a pageant about the history. Not a Mexican American boy could be picked to play Santa Anna, so well known to Texas and the United States.

Missions Relics of Colonial Spain

South along the river stand other old mills, one within the city limits, three across. Three self-contained communities, they had their own farms, work-houses, hospitals, schools, churches and shops. Steam was used and gears were essential there. Works of a city were built with simple tools by Indian artisans taught by Europeans to be efficient.

When the 17th century came, the long, low, narrow place was gone, but a new low, greenish-brown bog lay under the rocks. In 1754 the missions were at San Juan and the monks who lived at La Cruz took over the land. Walls and buildings fell into ruin.

With few exceptions, they are now restored.

My guide to the missions was Josephina Niggli, Mexico-born, San Antonio-reared author of *Mexican Village*.

We started our tour at San José. Richest, most influential, and best fortified, it was the "Queen of the Missions." It was founded in 1715, two years after San Antonio was born.

San José's walls contain its soldiers' and Indians' cells. In the church hang three Indian paintings, reputed gifts from the King of Spain. Its exterior is celebrated for its so-called Rose Window, a masterpiece of sculpture copied by hundreds of artists. Pedro Nájera, whose ancestors helped create the Alhambra at Granada, did the carving.

For five years he gave his skill to this small space. Legends surround his name; their essence is that, disappointed in romance, he lavished all his love on the exquisite window.

So successful was San José that in 1731 it attracted three neighbors—Spanish missionaries fleeing east Texas in fear of French encroachment. Two survive as living missions.

One is España. Here Miss Niggli and I found 45 families dwelling in the simplicity of their ancestors 200 years ago. Their children attend school in a barracks of the old fort. Bullet scars on a tower are pointed out as signs of a forgotten Indian raid. In the mission chapel the church still conducts masses. Primitive statues are hand-carved from wood; glass eyes and flexible joints lend realism (Plate V).

San Juan Capistrano, left almost as it was when the padres abandoned it, offers an authentic picture of the mission plan in 1731.

Only its walls remain as Indians and soldiers left them, save for time's despoil. In one cell we saw vegetables growing out of a dirt floor. Our intrusion disturbed wasps nesting on walls. Mourning doves seemed to cry over the desolation. San Juan, too, is surrounded by descendants of its original settlers.

Mission Concepción, closest to midtown, is best preserved of the four; yet we found its frescoes, executed by the monks with Indians' pulverized stone dyes, fading (Plate IV).

The Slum That Became a Museum

From Tspala, outermost mission, a series of dry irrigation ditches has been traced to an old Indian site on the river near a venerable section of midtown San Antonio. This community is still known by its Spanish name—La Villita (Little Town). It is a good example of how a city can transform an eyesore into an asset (Plate VIII).

Spain founded Little Town around 1722 to house her soldiers and Indian wards. In turn, Germans, Poles, and Frenchmen occupied it.

Finally the fine adobe buildings became shums.

Little Town was a bootleg joint. An old well revealed a deep shelf for hiding bottles. Other wells yielded arrowheads, ox jawbones, and six-inch Spanish keys. I saw these trinkets in La Villita's museum. A gamecock's leg bore a rusted spur. "He died with his spurs on," said a placard.

Today the old houses have been restored as they were two centuries ago (page 826). One is occupied by the manager, Hamilton Magruder, and his wife. Said she:

"We never lived in so comfortable a house. You have no idea how a thick adobe wall can moderate the weather. This house is 15 degrees cooler in summer and 25 degrees warmer in winter."

A few steps away, the municipal outdoor theater spans the river. On one bank is the stage; on the other rise grassy tiers, seating nearly a thousand (page 829).

Once, I was told, when everyone stood for the "Star-Spangled Banner," two soldiers approached in a canoe. They, too, stood up and, teetering precariously, drifted between orchestra and audience. Everyone but the musicians held his breath.

Army Days and Army Ways

Soldiers! During wartime San Antonio appeared a uniformed city. On Saturday nights civilians could scarcely look into downtown restaurants, there were so many soldiers. On an average day the city's eleven military installations contained 100,000 troops. As their families settled down beside them, San Antonio's prewar population, 284,000, rose an estimated 100,000.

Soldiers were not a passing phenomenon. Since the day in 1718 when Don Martín de Alarcón marched the first Spanish garrison into Yaguaguana (page 813), the city has acquired a taste for military pay rolls.

Here Robert E. Lee, commander of the Department of Texas, struggled with his conscience whether he should fight in the Civil War or "resign and go to planting corn." Obligated to leave without his belongings, he never recovered them.

In 1870 the city offered 40 acres to the War Department for an Army base. The result was Fort Sam Houston, named for the first elected President of the Texas Republic, a man who strove to avert the State's secession.

Fort Sam, now grown to 3,353 acres, is as much a part of the city as it is of the Army. New Braunfels Avenue, a main thoroughfare, intersects the post. There Geronimo and his Apache band were confined in September 1886 (Plate IX).



At the Alamo, Shrine of Texas' Devotion, Palms Get a Trimming for San Antonio's Fiesta Week
 in March. In 1922, a New Mexican artist painted the scene. The artist's name is not known, but the
 painting is now in the collection of the San Antonio Museum of Art.



As the Texas Rangers, San Antonio City and District of Texas for Drivers around the Texas Road



Every Visitor Tells the Missionary Where Adults Forget Indians to Play and Play



Isabela Remon is a Living Mission. Whose Children Stem from the Youngest Tenants

Isabela Remon is a Living Mission. Whose Children Stem from the Youngest Tenants. The Mission is a Living Mission. Whose Children Stem from the Youngest Tenants. The Mission is a Living Mission. Whose Children Stem from the Youngest Tenants.

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1. The first part of the document discusses the importance of maintaining accurate records of all transactions, including sales, purchases, and expenses. It emphasizes the need for a systematic approach to record-keeping, such as using a ledger or accounting software, to ensure that all financial data is properly documented and organized.

2. The second part of the document focuses on the importance of regular reconciliation. This involves comparing the company's internal records with external statements, such as bank statements and supplier invoices, to identify any discrepancies or errors. Regular reconciliation helps to ensure the accuracy of the financial records and allows for the timely identification and correction of any mistakes.

3. The third part of the document discusses the importance of maintaining proper documentation for all financial transactions. This includes keeping original receipts, invoices, and other supporting documents for each transaction. Proper documentation is essential for verifying the accuracy of the financial records and for providing evidence in the event of an audit or dispute.

4. The fourth part of the document discusses the importance of maintaining accurate records of all assets and liabilities. This includes keeping track of the company's cash, accounts receivable, accounts payable, and other assets and liabilities. Accurate records of assets and liabilities are essential for determining the company's net worth and for making informed financial decisions.

5. The fifth part of the document discusses the importance of maintaining accurate records of all income and expenses. This includes keeping track of the company's sales, purchases, and other income and expenses. Accurate records of income and expenses are essential for determining the company's profitability and for making informed financial decisions.

6. The sixth part of the document discusses the importance of maintaining accurate records of all taxes and other legal obligations. This includes keeping track of the company's tax payments, interest payments, and other legal obligations. Accurate records of taxes and other legal obligations are essential for ensuring compliance with applicable laws and regulations.

7. The seventh part of the document discusses the importance of maintaining accurate records of all financial statements. This includes keeping track of the company's balance sheet, income statement, and cash flow statement. Accurate financial statements are essential for providing a clear and concise overview of the company's financial performance and for making informed financial decisions.

8. The eighth part of the document discusses the importance of maintaining accurate records of all financial transactions. This includes keeping track of the company's sales, purchases, and other financial transactions. Accurate records of financial transactions are essential for ensuring the accuracy of the financial records and for providing evidence in the event of an audit or dispute.

9. The ninth part of the document discusses the importance of maintaining accurate records of all financial transactions. This includes keeping track of the company's sales, purchases, and other financial transactions. Accurate records of financial transactions are essential for ensuring the accuracy of the financial records and for providing evidence in the event of an audit or dispute.

10. The tenth part of the document discusses the importance of maintaining accurate records of all financial transactions. This includes keeping track of the company's sales, purchases, and other financial transactions. Accurate records of financial transactions are essential for ensuring the accuracy of the financial records and for providing evidence in the event of an audit or dispute.



Dark Dress I sat in the Palace of the Spanish King's Palace



Lat - You can find the School of the North



Chrysler Building, New York City, 1930. The Chrysler Building is a landmark of the Art Deco style, and is one of the most famous buildings in the world. It is located in Midtown Manhattan, New York City.

Training for the Spanish-American War, the Roughriders camped at the fair grounds. Their second in command, Theodore Roosevelt, paraphrasing the San Jacinto battle cry, told them: "When we get at the Spaniards, I want your watchword to be, 'Remember the Alamo!'"

In 1916 John J. Pershing left San Antonio for Mexico to lead his expedition against Villa. Coming back as commander of the Southern Department, he was soon called to command the AEF in France.

It would be difficult to name a leading American general of World War II whose professional career had no San Antonio background. Douglas MacArthur, son of a major at Fort Sam, attended a military academy here. Young Second Lt. Dwight Eisenhower coached another academy football team. From Japanese prison camps Gen. Jonathan Wainwright came back to be commander of the Fourth Army at its San Antonio headquarters, until his retirement last August 31.

Cradle of the Army Air Forces

At Fort Sam Houston the Army Air Corps hatched out in 1910. Lt. Benjamin D. Doolittle, assembling a gasoline engine and some bamboo poles, catapulted the crate off the ground. To teach the Army to fly, Congress allowed a wrecked biplane and \$150.

By the time World War I rolled around, the Army was convinced that San Antonio had good flying weather. Kelly Field, that war's famous flying school, was opened in April, 1917. Within eight months it swarmed with 32,000 men. Kelly had the first schools for air observers, air navigators, and bombardiers.

Carl Spaatz, Ira Eaker, Jimmy Doolittle, and other future air generals got their training there. In 1943, Kelly and Duncan Fields merged to become the San Antonio Air Depot, the Army's largest aircraft-repair base. Damaged planes limped in from all corners of the world.

Randolph Field, opened in 1930, became the "West Point of the Air," but during the war it was turned into a B-29 base. Far out of town, Randolph is a little city in itself. From the air it presents a striking view, its streets radiating from a hub and intersecting circular concentric drives.

When he retires, your old soldier, general or sergeant, eyes San Antonio with favor. There he can live beside those who talk his language.

Many travel-weary Army wives will confess feeling homesick for the city of their birth. So many San Antonio girls have married into the service that the city has become known as the "mother-in-law of the Army."

If the military flavor lingers, so does the aura of cowboy days. Traffic rolls over streets that twist along old mustang and cattle trails. San Antonio visibly remains a cowman's town. It is their marketing headquarters. Their wives shop in its department stores, their children attend its many academies and colleges (page 831).

Cowboy Boots Tread Hotel Carpets

You will find cattlemen from the Gulf coast, the western plains, the border, even Mexico. Others live in suburban mansions while foremen manage their enormous ranches.

If you wish to see these men, drop into the lobby of the Garter Hotel. Many will be reclining in easy chairs. They may be in the most unpretentious wooden or khaki trousers. Whichever kind, the cuffs hang down over elegant cowboy boots.

I spoke to a man who I judged from his boots, must be the king of cattlemen.

"No son," he said. "I'm a farmer. They kill me for wearing boots. But for real comfort I can't find their equal. Men who laugh at women's high heels don't know what they're missing. Now, I have flat feet, and they hurt in low quarter shoes. A boot, with its reinforced instep, rests me. Somehow the high heels make me stand straighter. I can dance better in cowboy boots. But they're no good for long hikes. After a few miles they'll kill you."

Last spring I met a San Antonio artist wearing cowboy boots.

"I do outdoor painting," he explained, "and I'm afraid of rattlesnakes."

Consult the San Antonio telephone directory; it lists half a dozen bootmakers (Plate XIII). I talked to one who had been fitting cattlemen for years. He keeps their exact measurements on wooden blocks. For a new pair they send him a postcard. He told me about boots:

"A steel spring built into the arch distributes the stirrup's pressure across the entire foot. High heels grip the stirrup and sustain the spurs. They slope forward so as to dig into the ground when a dismounted rider wrestles a roped calf. Also, high heels prevent the toes from curling up like Turkish slippers."

"Unsainted Anthony" Has Reformed

Boots are a common sight on San Antonio businessmen; even high-school boys wear them.

But you never see a revolver worn openly; Texas cattlemen no longer "catch cold" without one.

There was a day when six-shooters, known



For Fiesta Week, Town Has a Mexican Dance.
In Center, Girl in Costume of a Mexican Girl. Girl on
Right, Girl in Mexican Dress. Girl on Left, Girl in
Mexican Dress. Girl on Right, Girl in Mexican Dress.
Girl on Left, Girl in Mexican Dress. Girl on Right, Girl in Mexican Dress.

“or directors,” were checked behind the buckhorn bar. Desperadoes were wont to ride into town from hide-outs in the hills for an evening’s whoop.

Evening houses were wide open. Cockfighting was permitted on the plaza and well as on the rooftops. At that time, however, the Mexicans were not allowed to drink and a license for a few minutes of intoxication. Winner: the man who rode the day. San Antonio won the nickname “Sainted Anthony.”

The Free State of Texas.

A marker on Military Plazaidentifies the site of the Council Housefield. In 1832 the citizens held conference with the Comanches, just off the warpath. Peace proposals getting nowhere, the braves drew bows and scalping knives and ran wild toward the river. Fighting by both sides were supernumerary warriors.

Red men harraded themselves in houses. Burning turpentine evilized them. Armed with rocks a citizen known as “Old Paint” stood off a band of braves. By evening the Indians had lost 33 dead, the army 25.

Under the Texas Republic the city became infested with so many horse thieves that vigilantes formed a committee. A bar on South Flores Street was named in honor of their leader, one Mondragon. So many men were taken from its branches that a rhymester wrote:

The law at Mondragon
All Texas will recognize
To catch a San Antonio
Vigilante must be a thief.

Incidentally, to San Antonian pronunciation his city name rhymes with Mondragóns.

I was amused by a recent motion picture whose villain directed a henchman in words something like this:

Ride down to Londo and round up a hundred gunmen.

Londo, 100 miles to the west, was built partly by the peaceful sons of refugees from German military and Gunplay had been a part of the town's tactics.

San Antonio has a thick sprinkling of their cousins. Its breweries, flour mills, several big stores and banks have been in German family hands for years. They give San Antonio a flavor of a combination Milwaukee



Texas Lumber Co., and Oil Refinery, Houston, Texas. View of the Buildings.

The photograph shows the industrial complex of the Texas Lumber Co. and Oil Refinery in Houston, Texas. The image captures a dense arrangement of tall distillation columns, storage tanks, and a complex network of pipes and structural steel. The perspective is from an elevated position, looking down into the facility. The sky is overcast and hazy, and the foreground shows some ground-level structures and vegetation.



At the Capitol Theater There Is a Cliff Between Audience and Actors the Highlighted San Antonio River

San Antonio, Texas, is a city of many contrasts. It is a city of old and new, of tradition and progress. It is a city of many faces, of many stories. It is a city of many dreams, of many hopes. It is a city of many lives, of many loves. It is a city of many things, of many ways. It is a city of many colors, of many sounds. It is a city of many lights, of many shadows. It is a city of many secrets, of many mysteries. It is a city of many wonders, of many marvels. It is a city of many beauties, of many graces. It is a city of many joys, of many pleasures. It is a city of many sorrows, of many pains. It is a city of many tears, of many smiles. It is a city of many hearts, of many minds. It is a city of many souls, of many spirits. It is a city of many angels, of many devils. It is a city of many saints, of many sinners. It is a city of many heroes, of many villains. It is a city of many legends, of many myths. It is a city of many legends, of many myths. It is a city of many legends, of many myths.



Young Jersey Beauties Display Shapely Figures Parading Before Their Judges

The young women in the San Antonio parade wear light-colored uniforms. In the background, the large building is the Hotel El Comodoro. The parade is taking place on a street in San Antonio, Texas.

square who has spent much of all his life and ammunition in local stores. Soon he was President of Mexico.

The exile who made his stay permanent was Dr. Antonio Utrilla, a Spanish physician. Following the Mexican Revolution, he fled to San Antonio, Texas, and with his friends in the city, he built a building, near Brownsville Park, he built a building with a striking color scheme attracts the curiosity of visitors.

Just removed from Dr. Utrilla's mansion is the Mexican quarter—a city within a city where most of the Mexican immigrants live. The quarter lies west of San Pedro Creek. Going west of the San Pedro is like going south of the border; the sights and odors are those of a market place in Mexico.

A slum clearance project replaced many of the district's shacks with airy apartment houses, but the very poor still exist in wooden

shacks. There are very few cars with San Antonio calls *carros* (cars).

Notwithstanding its poverty, I found the quarter bright with flowers. Fruit stands, green with oranges and lemons, and the streets had many colorful flowers. At a store window I saw a display of flowers with colored pictures. Even funeral wreaths were gaudy.

Antique Automobiles Chug and Honk

Through the streets ambled ancient cars, their back seats often filled with junk. Great mechanical ingenuity was required to keep them running.

It is worth your life to enter the Mexican quarter. Drivers creep along outer lanes make left turns with bursts of speed. Right turns, of course, are made from center lanes. As houses block your vision at most corners, your best bet is to honk.



An Aerobic Young Caveman Clears the Bar at Poughkeepsie Military Academy

The World Council of Churches has been an American church since 1948. It is a member of the National Council of Churches, which is the largest Christian body in the United States. The World Council of Churches is a global organization of churches and churches-in-progress, working together for the unity of Christendom and for the advancement of the Christian faith in the world.

$$\frac{S_{\text{max}} - S_{\text{min}}}{1 + \exp(-S_{\text{min}})} = \left[\frac{(27 - 0) \times 0.986}{1 + \exp(-0)} \right] \approx 26$$

I look for a chance to work with Flaven
 better, carrying these things down to the
 city (lawyer). You're going to be
 houses and lots. *Arreglamos papeles de ci-
 dadania* (We arrange citizenship papers).
 Birth certificate. We are going to
 easily. *Se hacen e piden* (we make and

Midtown Square, facing Rockefeller Center, the Mexican quarter's Times Square and equivalent. On sunny days the plaza is packed with people.

A new classroom, El Centro Nuclear, offers students a place to study with a teacher helping and pointing in Spanish, the other in English. Both leads to language student.

Persons auditorium contains several of the best seats to be had with them, and the seats on the sides are for fat persons and children. They are better known.

to the clientele as "hot spots" : do artists interfere with administration work?

Black boxes that he displays Spanish titles about *amor, guerra, y dolor* (love, death and wizardry). Paper airplanes, *borates* (log sales), Old photographs of radios (like Mexican music). Boxes have a paper bag for buttons. Subtle as a whisper, a word in your hand, paper. Boxes of love, this is the secret for future and the world will be.

Herb shop with a large selection of herbs and spices. Also has a large selection of dried fruits and vegetables.

Heat a baked meat and force a charcoal
and tooth powder. Finally, work trunks
and a good pair of shoes sweet, etc.

If ~~there~~ ^{are} no mammals in ~~any~~ ^{any} of the
the Mexican ~~the~~ ^{the} papayas, and avo-
cados are ~~not~~ ^{not} of any

10.1 The following are some typical substances:

recently for as little as a dime. Chile con carne, tamales, *enchiladas*, *tacos*, and tortillas are favorites, as indeed they are all over town (Plate XV).

Following a recipe centuries old, Mexican women roll panake-shaped white-corn cakes by hand. I saw tortillas cooked on machines imported from Mexico City. Like a laundry's white starched collars, they emerged curling from a series of steaming hot rollers.

Mexican dishes are not the only surprises on San Antonio menus. On Sundays grilled rattlesnake meat is served to visitors at the Reptile Garden in Brackenridge Park. Epicures enthuse over broad breasted turkey. Do you relish *cabrera* or *chevon*? (Page 842.) Try a praline; every candy store is stocked with these pecan-and-sugar candies.

Before the war San Antonio's cherished T-bone steak, fried to the consistency of shoe leather, was a 45-cent restaurant item. Juicy pit-barbecued beef, rich with smoky flavor, sold last spring for 60 cents a heaping plate.

"Do you think that's too much?" a waitress asked me.

Pecans Shade the City and Give It Work

Looking into the origin of these dishes, I learned some surprising details about San Antonio and its countryside.

Pecan trees cover a large part of the city. As I surveyed them from a lofty building, they obscured dwellings. They provide shade, beauty, and a beautiful nut crop each fall. On a hot summer day no sound is sweeter than their rustling leaves heralding evening's breeze from the Gulf of Mexico. At dusk fireflies dance through their branches.

No doubt the pecan yield is Texas's oldest. Geological formations are garnished with fossil nuts. Early explorers were amazed by the big growths.

Pecans grow anywhere on the Texas plains except where hard strata turn back to roots. Larger groves follow river bottoms, where floods spread the seed. Many a bottom-land holder has paid his taxes by selling the pecans that cost him so little labor.

Texas produces about one-fourth to one-half of the Nation's crop, and San Antonio boasts that it shells and markets a large percentage of the Southwest's crop.

The industry was launched in 1882 by a candy manufacturer who shipped fifty barrels to the East on speculation. Friendly Indians gathered the nuts.

For years shelling was done by hand. Machines revolutionized the industry and improved the pay scale.

Visiting the Southern Pecan Shelling Com-

pany, I watched its mechanical sheller crack two shells in a twinkling without breaking the meats.

Two thousand of these machines, housed in a loft, require the attention of twenty men. Each month they open a million pounds of nut meat. Automatic machinery discards most of the shell. Women, working over a moving belt, pick out the remainder.

The factory owner told me that nothing was wasted. Candymakers use the fine meat crumbs. Ground into a powder, the inner shell was used in wartime to stretch out the cinnamon supply.

Though eastern buyers pay premium prices for parshell nuts, the wild nut is the basis of the industry. Some improved varieties have been huddled on to hardy, native root stock. An old tree may bear five or six kinds.

Man Tailors Turkey for White Meat

My next "discovery" was the broad-breasted turkey. This man-tail red bird, developed in England around 1900, yields 40 percent more breast meat than the native turkey. He is bred for the table, not the open range. His short legs are ineffective for roaming and his meaty wings can scarcely rise.

Housewives complained that the bird was too big for refrigerators. To accommodate them, wholesalers split the turkey into halves and even quarters.

The San Antonio-Austin-Cuero triangle, one of the Nation's largest turkey producers, concentrates on the new turkey. About half its flocks carry some broad-breasted blood.

To see parent flocks, I visited Luling Foundation, a demonstration farm some 55 miles from San Antonio. Walter Cardwell, the manager, said:

"Breeding, crossing, and selection started with the old bronze turkey. We got our stock from the State of Washington. We believe we have improved the breed.

"You might compare the turkey's history to that of beef cattle. Both the longhorn and the wild native turkey were adapted to life on the range. They knew how to hunt cover and protect themselves against marauding animals. However, they were not the best breeds for eating. Today the longhorn exists only in zoos. Before long the common turkey may join him there."

Ah! Turkey Smoked Like a Ham

Consumers clamor for smoked turkey, on which they may nibble for weeks.

This area concentrates on hatching-egg production. Its turkeys may live outdoors the year round; hens lay during the winter.



Infant-sister Present the Colors at Fort San Francisco Calibretes Fiesta Week

This is a photograph of a group of children in a schoolyard, holding up several large, colorful flags. The flags are arranged in a line, and the children are standing behind them. The flags are of various colors, including red, white, and blue. The children are wearing light-colored uniforms. In the background, there is a tall, multi-story building with a clock tower. The clock tower has a square face and a small dome on top. To the left of the building, there is a large, leafy tree. The sky is blue with some white clouds. The overall scene suggests a school event or a presentation of flags.



Thompson's Grammar School, which houses modern living quarters for the students.

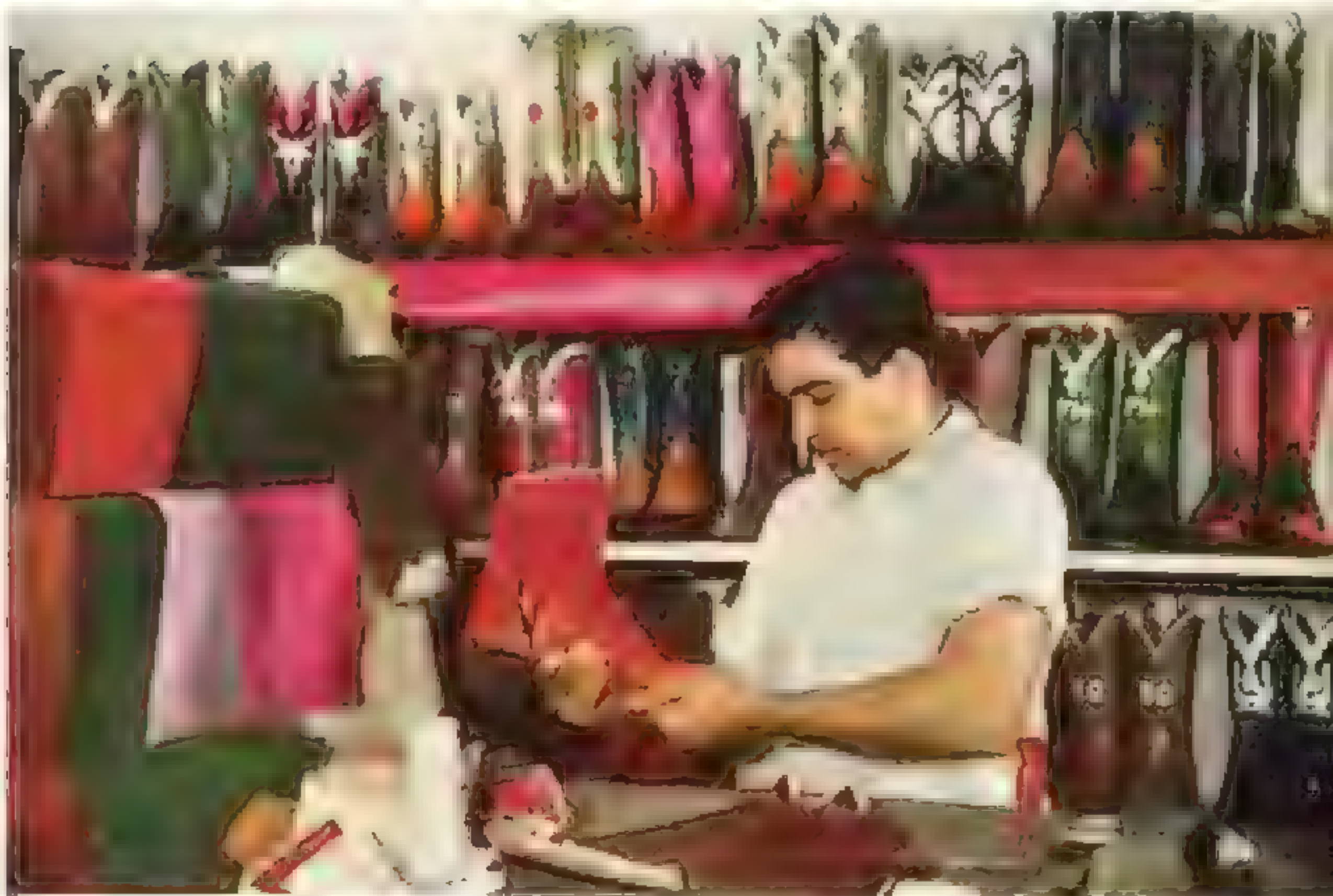
The school is a fine example of modern architecture and is one of the best in the country.



From the Ward Store. New & Fashionable Emporium of Ladies' Suburban and Colonial Dresses.
The pattern shown is one of the latest designs in the line of dresses. The pattern is
a combination of the latest in fashion and the latest in design.



Sleepy Darters and World's Women Edging For Amore Big Trucks Emission a Traffic Signal
 By the time the sun had set, the night was dark and the stars were shining brightly in the sky. The woman in the carriage was looking at the flowers in her hands, and the horse was looking at the woman.



With Fancy Leather and Beutiful Bridges, Texas in Union the first and State Parks
 The woman in the white shirt was looking at the red fabric in her hands, and the horse was looking at the woman. The woman was looking at the red fabric in her hands, and the horse was looking at the woman.



Three Young Women Sitting on a Carpet of Pinks at the Lewis State House



Texas Has Adopted Mexico's Hat
 Tanned as Is the
 Country's Hat
 Tanned as Is the
 Country's Hat
 Tanned as Is the
 Country's Hat



Sewing Time
 Sewing Time
 Sewing Time
 Sewing Time
 Sewing Time
 Sewing Time



Take a Bow-Edged Skirt - Trim It with Buttons - Put On a Fascinating Crown!

For more information, write to: The Fashion Editor, The Fashion Magazine, 1000 Broadway, New York, N.Y. 10003. For more information, write to: The Fashion Editor, The Fashion Magazine, 1000 Broadway, New York, N.Y. 10003.

"Thus we have an advantage over northern breeders," said Mr. Cardwell. "To produce flocks in time for the Thanksgiving market, the North orders eggs from us in December."

To supplement sales, the Foundation buys eggs from breeders under its supervision. At the time of my visit it paid 27 cents an egg. An owner of 36 hens sold 44 eggs per hen and made a seasonal profit of \$7.24 a hen. A man using lights to stimulate laying made \$8.31 a hen.

In a feeding lot, I saw what selective breeding had done to the pugnacious, roving gobbler. Several incubated poultlets represented man's idea of what a made-to-order turkey should be.

These pampered birds were born under controlled temperature. Their brooder house was cleaned daily. They got vitamins and minerals. Before long they would be vaccinated and wormed.

Now 11 weeks old, they had been put on a grazing lot. Too lazy to walk, they had left the fat end untouched, though it was green with tender oats. To tempt them afield, an attendant moved their mush trough periodically.

Gentle dueling between poultlets showed that most of the fierce old gobbler's fighting spirit had been bred out. Notwithstanding, certain instincts remained. When a hawk swooped down, the poultlets ran for their shed.

Canvas Saddles Worn by the Hens

In the laying pens, where hens are coupled with toms, each layer has her own trap nest. As one entered her nest, I saw a door fall automatically, locking her in. Later an attendant released her, stamped the fresh egg with her number and the date. Thus a record was kept on each shell.

On her wing the hen wore a metal clip showing her pedigree. Across her back a heavy white canvas was stretched like a saddle. I was astonished by this wearing apparel. The attendant explained.

"We call them turkey saddles. Some of the toms are pretty tough. Canvas protects the hen against injury. Without it, there is a 30-percent rejection of slaughtered hens after the laying season. Dealers do not like to offer a bruised and corrugated turkey."

Turkey saddles? What would they have next—rose-colored glasses for chickens? I mentioned these saddles to a San Antonio chicken fancier. This was his boast:

"I have something that will beat that."

With that, he produced a pair of tiny red glasses. These, he told me, were designed by a novelty company for aristocrats but cannot

be used on chickens. Capriciously, they peck at weaker birds' red-rimmed eyes. To break this habit, a few poultrymen pierce the beak and insert a tight plug. In it they embed a nose-piece for glasses. Red lenses confuse the cannibal; everything looks rose-colored (page 843).

Cattle Ranch Shapes a New Breed

Ten miles from San Antonio, within easy sight of its skyscrapers, lies the 3,500-acre Essar Ranch. Essar raises no cattle for slaughter; its yearly sales go to breeders. Here an experiment is fashioning a new American breed of cattle adapted to hot weather and high humidity.

Essar stands for Scientific Research, a name which expresses the aspirations of Tom Slick, Jr., the genetics enthusiast who owns the ranch. During his absence I toured Essar with Arthur McArthur, the manager.

Paralleling a United States Department of Agriculture experiment at Jeanerette, Louisiana, Essar is developing a cross between the Aberdeen-Angus, heavy meat producer from cool Scotland, and the Brahman, humpbacked, heat-tolerant cow from tropic India.

A Brahman cow resists to a large degree the Gulf coast's enervating heat, fever ticks, and flies. She fights the brush like no other except the Afrikaner. A hardy traveler, she trots a mile or more to water. However, a large percentage of waste development goes into her hump and dewlap, the latter a mass of loose skin beneath the neck. Ears are long and drooping; horns differ widely.

Angus, perfection type of beef cattle, produces finely marbled flesh. The comparatively short head is polled (hornless), the body low and compact, and the coat uniformly black.

However, the Angus, like other British breeds, is not acclimated to hot weather. Without heat tolerance, an important fact in fertility, the tropic herd tends to die out.

A Cowman's Problem in Fractions

"What we want," said Mr. McArthur, "is a bull we can sell to the Gulf coast to improve its crossbred Brahmans. If we can combine and fix the best qualities of Angus and Brahman, we shall have that bull. Our goal is the fixation of the $\frac{1}{4}$ Brahman- $\frac{3}{4}$ Angus into a heat-resistant meat producer with a solid black coat."

The first cross with the polled Angus removes most of the Brahman horns. This first-generation hybrid is known as the pureblood half blood. In the next step a half-blood is mated to a pure Angus, producing a $\frac{3}{8}$ - $\frac{5}{8}$ cross. The desired $\frac{1}{2}$ - $\frac{1}{2}$ cross is obtained

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At the same time, the fact that the *Journal of Management* is the only journal in the field to have been ranked in the top 10 of the Social Sciences Citation Index for 10 years in a row (1990-1999) is a testament to the journal's high quality and its broad appeal to a wide range of management scholars.

1. *Wissenschaftliche Grundlagen der Sozialpolitik*
 2. *Sozialpolitik und Sozialrecht*
 3. *Sozialpolitik und Sozialökonomie*



2 4 .. |

Seeing the World Sadly Through Racialized Glasses

§ 91(4) requires that the court, in its order, set out the reasons for its decision. In the present case, the court found that the respondent's conduct was "unreasonable" and "unjustified" and that the respondent's actions were "unreasonable" and "unjustified". The court also found that the respondent's actions were "unreasonable" and "unjustified".

$\mathbb{E}[\mathbf{y}|\mathbf{x}] = \mathbf{E}[\mathbf{y}|\mathbf{x} = \mathbf{x}^*] + \mathbf{E}[\mathbf{y}|\mathbf{x} = \mathbf{x}^* - \mathbf{x}^*]$
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[illegible]

Northern Spring Period Weeks

[illegible]

According to the results of the present study, the use of the proposed model for the prediction of the shear capacity of FRP-strengthened RC beams is more accurate than the existing models. The proposed model is able to predict the shear capacity of FRP-strengthened RC beams with a mean error of 1.2% and a standard deviation of 1.2%.

Wiederholte Untersuchungen von Mollusken, die in der Natur vorkommen, haben gezeigt, dass die meisten von ihnen in der Lage sind, sich an Veränderungen in der Umgebung anzupassen. Dies ist ein wichtiger Aspekt der Überlebensfähigkeit von Mollusken in der Natur.



Wild-eyed Steers Say Away from the Camera, Thrust Horns Up Nervously

Then the red horns of Texas County Texas I used to see everywhere in the country. I have seen and heard them and I have seen and heard them in the country. When the photographer came to San Antonio, Texas, the steers were everywhere. A few people were in the country.

the country with the rest of Texas. It is the mother of the country. And it is the mother of the country. And it is the mother of the country.

Another day's little weather. The temperature was a little warmer. The temperature was a little warmer. The temperature was a little warmer.

The first day of the winter. The first day of the winter. The first day of the winter. The first day of the winter.

Who Won the War? Every Texan Knows!

It was the first day of the winter. It was the first day of the winter. It was the first day of the winter. It was the first day of the winter.

And San Antonio was the first day of the winter. And San Antonio was the first day of the winter. And San Antonio was the first day of the winter.

Now we publish it's eight columns. Now we publish it's eight columns. Now we publish it's eight columns.

Summer. Summer. Summer. Summer. Summer. Summer. Summer. Summer.

The first day of the winter. The first day of the winter. The first day of the winter. The first day of the winter.

The first day of the winter. The first day of the winter. The first day of the winter. The first day of the winter.

And San Antonio was the first day of the winter. And San Antonio was the first day of the winter. And San Antonio was the first day of the winter.

The Society's New Map of the South Central United States

A RICH and varied area as large as France, Germany, and Czechoslovakia combined is presented in the National Geographic Society's new map of the South Central United States—Arkansas, Louisiana, Oklahoma, and Texas.*

This 29½-by-24-inch supplement to this issue of the *NATIONAL GEOGRAPHIC MAGAZINE* is the fifth in The Society's series of large 10-color sectional maps of the United States. When the map of the North Central States is issued as a supplement next year, The Society's 1,600,000 members will have acquired, in six sections, a master reference map of the Nation equivalent in size to a single sheet of 28 square feet †

All maps in the United States series are drawn to the same scale—1:2,500,000, or 39.46 miles to the inch—with one exception. The Northeastern United States map, because of the area's dense population and consequent increase in number of place names, was scaled at 1:1,750,000 or 27.6 miles to the inch.

Like its predecessors, the South Central United States map shows a wealth of accurate up-to-date detail, including roads, railways, and waterways. Its scale, design, clarity, and cartographic completeness make it useful both as a general geographic reference source and for planning trips through this vast and diversified region. The map is drawn on the Albers Conical Equal-Area projection, and distances may be measured upon it with little appreciable scale variation.

The names of the four States shown complete on this map are used to form a striking border design.

Names Eloquent of Early Settlers

The 5,683 place names on the map reflect the latest official population figures—and many also attest to the character and humor of those who first settled here.

Early settlers of these four States were evidently proud of their womenfolk. For example, Arkansas place names include a Jennie, an Elvise, and a Daisy.

Oklahoma honors Muzie and Corinne. Louisiana, which boasts old French names such as New Orleans, Baton Rouge, and Lake Pontchartrain, also lists Eunice, Ida, Lillie, and Bernice. Texas has her Nancy, Maed, Melissa, and Alice, just south of which is Ben Holt.

Other interests of the early settlers are reflected in such place names as Bowlegs, Big-

foot, Blue Eye, Snackover, Dime Box, Mule-shoe, Lariat, Oakay, Snowball, Evening Shade, Loco Hills, and Dimple.

The new map highlights many points of historic, recreational, and scenic interest. Near its western border, in New Mexico, is the location of the first atomic-bomb test in the appropriately named Jornada del Muerto. Lack of water in this ninety-mile stretch of trail prompted the Spaniards to name it Journey of the Dead Man. To the south 70 miles, in the White Sands area, is the testing ground for the captured V-2 rockets.

Millions of Cattle Roam Open Spaces

Reaching across the great central plains from the Mississippi River to the Rocky Mountains, the South Central States form one of America's biggest grazing grounds. Within the four States are 14,000,000 cattle, more than one for every man, woman, and child in the area. Figures for other livestock also are impressive:

| | | | |
|-------|------------|------------------|------------|
| Sheep | 10,000,000 | Chickens | 80,000,000 |
| Pigs | 1,000,000 | Goats | 1,000,000 |
| Goats | 3,500,000 | Horses and mules | 2,000,000 |

Yet the land is not crowded.

Fields planted to wheat, cotton, and corn cover an acreage sufficient to blanket every square foot of Pennsylvania.

Hay fields of the South Central States, if put together, would spread over the whole of New Jersey, and an acreage of similar extent is planted in sorghum.

Most of the country's rice crop is grown on 1,200,000 acres in this region, and a similar area is planted in peanuts.

It is also a place for trees. Commercial forests cover a stretch bigger than the entire State of Nebraska.

Thousands of acres produce citrus fruits, pecans, and tung nuts.

Crystal City, Texas, in the heart of a truck-growing region, honors Poyeye, patron of

* Members may obtain additional copies of the new map, "South Central United States" (and of all standard maps published by The Society) by writing to the National Geographic Society, Washington 6, D. C. Prices, in United States and Possessions, 30¢ each on paper, \$1.00 linen; Index, 35¢. Outside United States and Possessions, 75¢ on paper; \$1.25 on linen. Index, 50¢. All remittances payable in U. S. funds. Postage extra.

† Other maps in the National Geographic Society's sectional series of the United States have been issued as supplements to their issues: *Southwestern United States*, June, 1946; *Northwestern United States*, June, 1947; *Northeastern United States*, September, 1945; *Southeastern United States*, February, 1947.

spinach, with a large statue in the town square.

Most of our domestic cane sugar is grown on 264,000 acres in Louisiana.

Two-thirds of the nation's petroleum—forty percent of the world's output—comes from ponds beneath the surface of the South Central States. All four States also are heavy producers of natural gas, accounting for two-thirds of the nation's output.

Louisiana was admitted to the Union on April 30, 1812. Seven years later its present boundaries had been definitely established. By that time its principal city, New Orleans, was a century old; the original 4,000 Acadians who came to southern Louisiana from Nova Scotia between 1760 and 1790 had increased in numbers and were known as "Cajons"; Gen. Andrew Jackson had become the hero of the Battle of New Orleans; and the pirate Lafitte and his band had settled down to fishing and trapping in the swamp lands below New Orleans.*

New Orleans Booms as Port

The first steamboat to navigate the Mississippi reached New Orleans in 1812, and the city soon began to boom as a shipping point for the Mississippi Valley. By 1840 New Orleans was the fourth largest city in the United States, and its second port.

Planters emigrated to Louisiana's outlying parishes and laid the foundation for the State's vast cotton and sugar production of the future. Successors to early fur trappers built up that business until today Louisiana is the nation's top fur-producing State.

Oklahoma, once part of the Territory of Missouri, and later part of the Territory of Arkansas, became a Territory in its own right in 1890. Adjacent to it on the west lay Indian Territory. These "Twin Territories" became the State of Oklahoma in 1907.

Today oil production overshadows other industries in the State, although agriculture is extremely important. Within Oklahoma's borders lie granite, marble, limestone, sandstone, brick clay, asphalt, glass sand, tripoli, volcanic ash, and gravel.

In Oklahoma's Wildlife Refuge in the Wichita Mountains, travelers may see one of the last buffalo herds on its native ground. Here also is a small herd of historic Texas longhorns, the tough old cattle which contributed so much to the opening of Texas and the great plains.

The Ozarks of Missouri, and Arkansas, too, are living museums of folk lore and present-day recreation areas.

Arkansas, also once part of Missouri Territory, became a separate Territory in 1819 and

by 1836 had achieved statehood. During the panic of 1837, thousands of farmers crossed the Mississippi and poured into the State, almost doubling its population to 97,574 by 1840.

As early as 1800 cotton was introduced into Arkansas. Today the State maintains its place as one of the leading cotton producers and usually ranks second or third in the nation. Production of cottonseed oil also has risen to huge proportions.

The only independent nation to become a part of the United States is Texas, which in 1836 freed itself from Mexican rule and in 1846 was admitted to the Union. On the record of those eventful, historic years appear the names of the brave defenders of the Alamo and the heroes of the Battle of San Jacinto.†

Texas is as big as all New England, New York, New Jersey, Pennsylvania, Ohio, and Illinois. Its town of Dalhart, in the northwest corner of the State, is closer to the capitals of New Mexico, Oklahoma, Kansas, Colorado, Nebraska, and Wyoming, than it is to Austin.

The Lone Star State stretches 800 miles from the semitropical Rio Grande to its northern border. Its greatest width is about 750 miles. The Rio Grande forms the State's boundary with Mexico for about 500 miles.

Texas enjoys widely diversified interests. Cattle, wheat, corn, fruit and vegetables, oil, timber, manufacturing, and shipping all contribute heavily to its wealth. Its famous King Ranch covers as much ground as the State of Rhode Island. Here, by crossing native short horns with Brahman cattle from India, the ranch has developed the Santa Gertrudis strain, America's first distinct breed.

Randolph Field, Texas, is the "West Point of the Air." Like all flying fields on the new map, it is marked with a small square symbol.

The new map continues the route of the Intracoastal Waterway as shown on the Map of Southeastern United States, carrying it from New Orleans to the mouth of the Rio Grande at Brownsville.

Ships traversing the Sabine-Neches Canal, a part of the Waterway, appear to be cruising the streets of Port Arthur, the nation's biggest oil-shipping center. Here big pumps can load a 150,000-barrel tanker in one day.

A dredged ship canal, 50 miles long, converts Houston, an inland city, into a seaport.

* See "Louisiana Trades with the World," by Frederick Sampson, in this issue, page 705.

† See "Carnival in San Antonio," by Marion Sutherland, in this issue, page 813.



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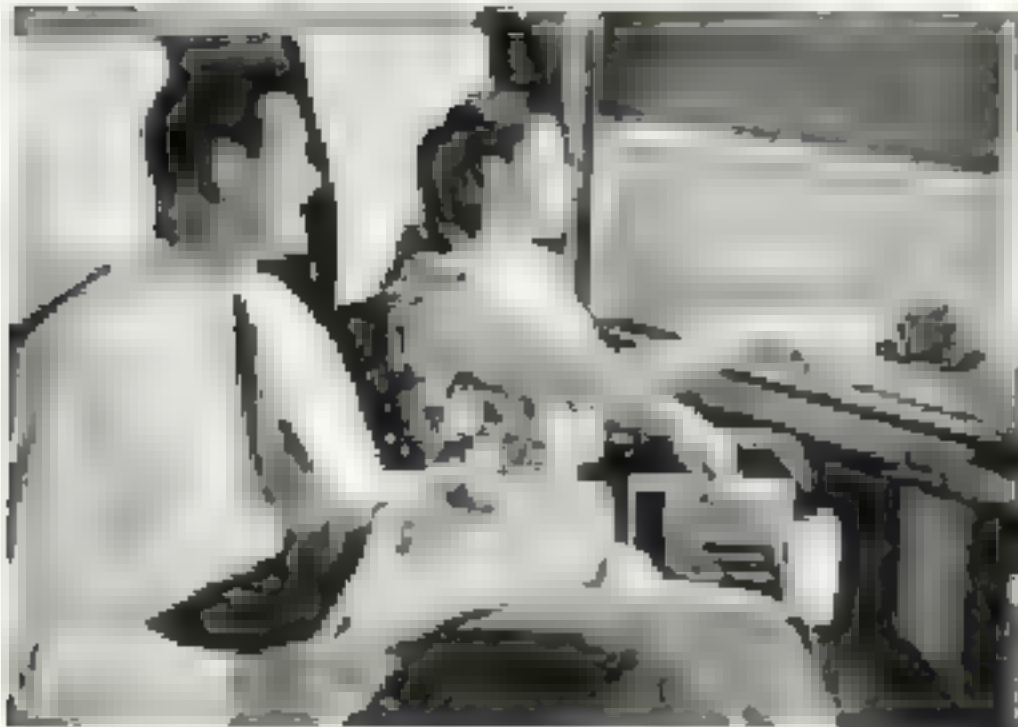
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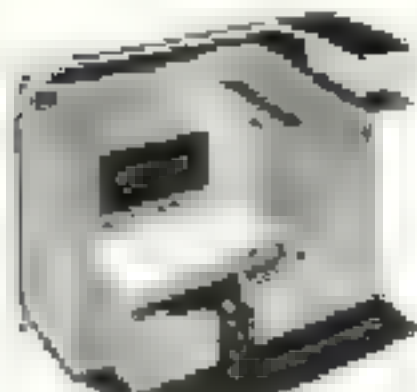


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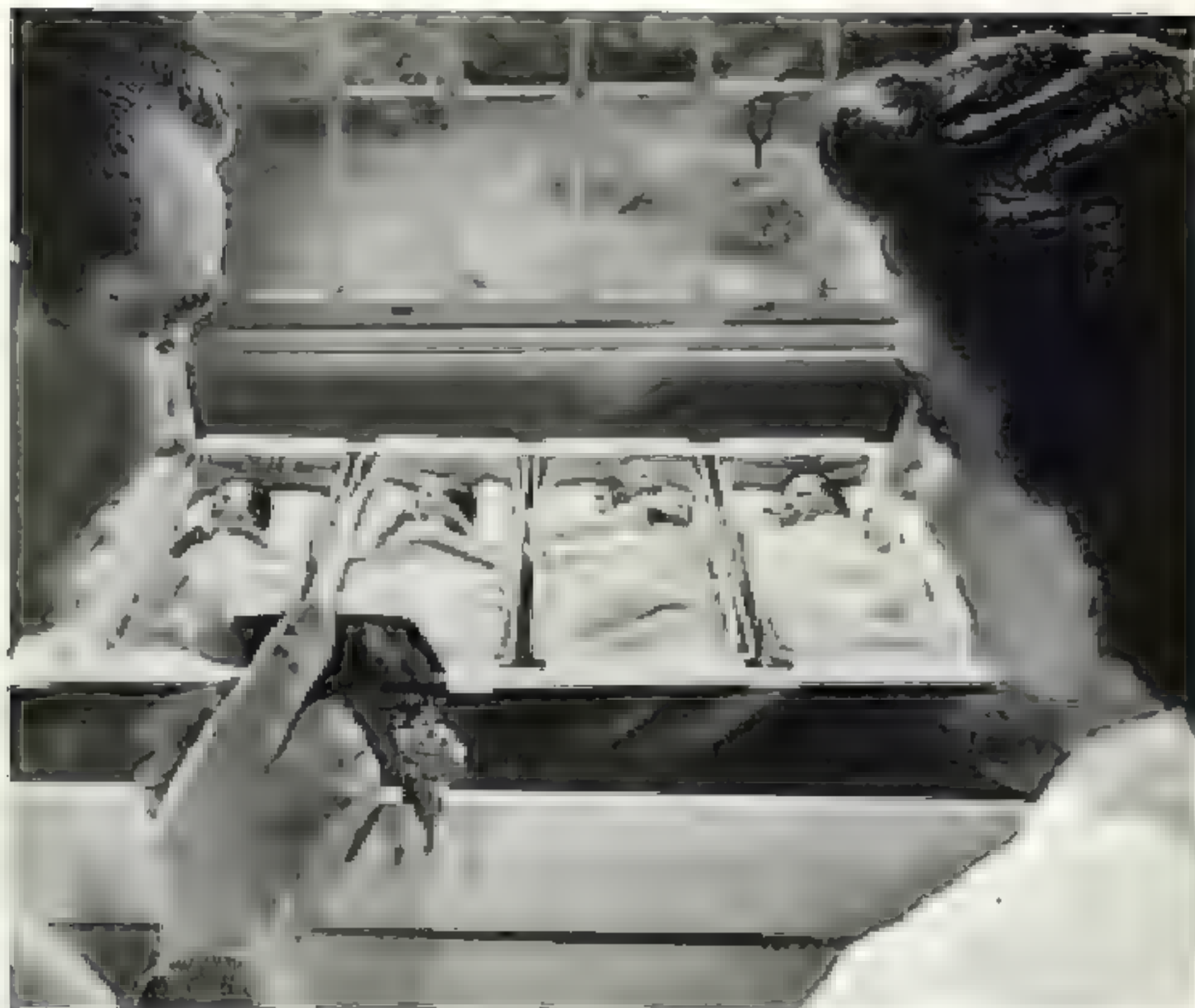
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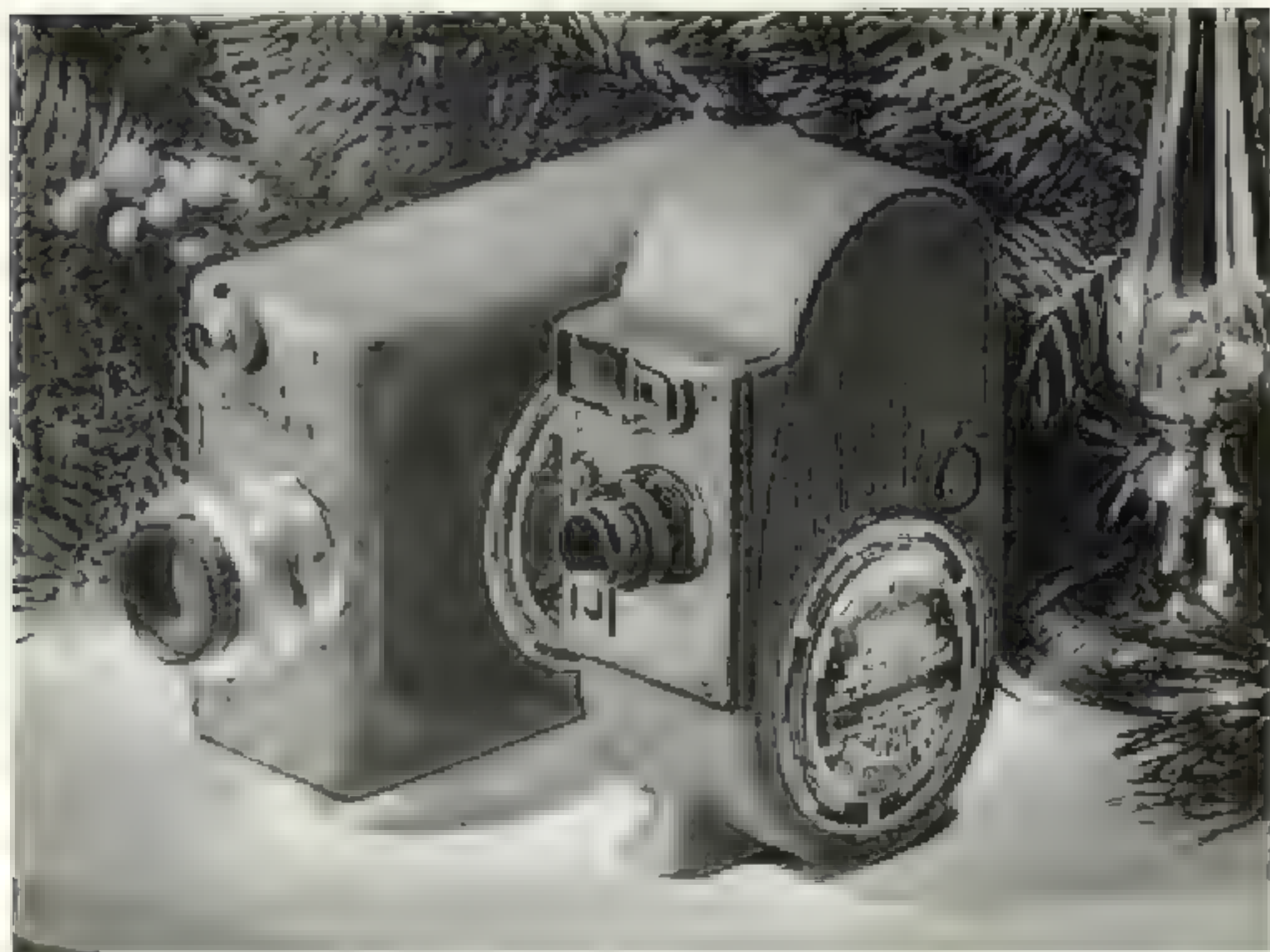


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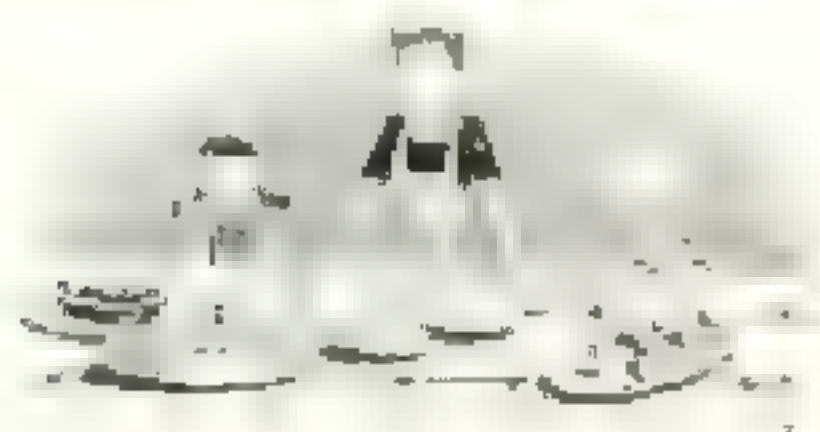
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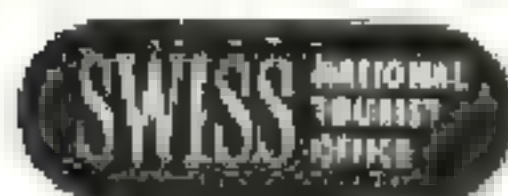


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Page 2



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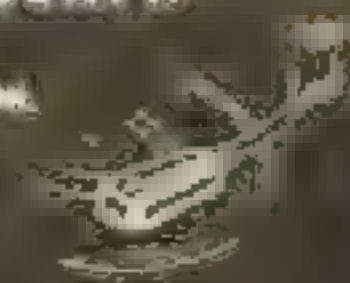


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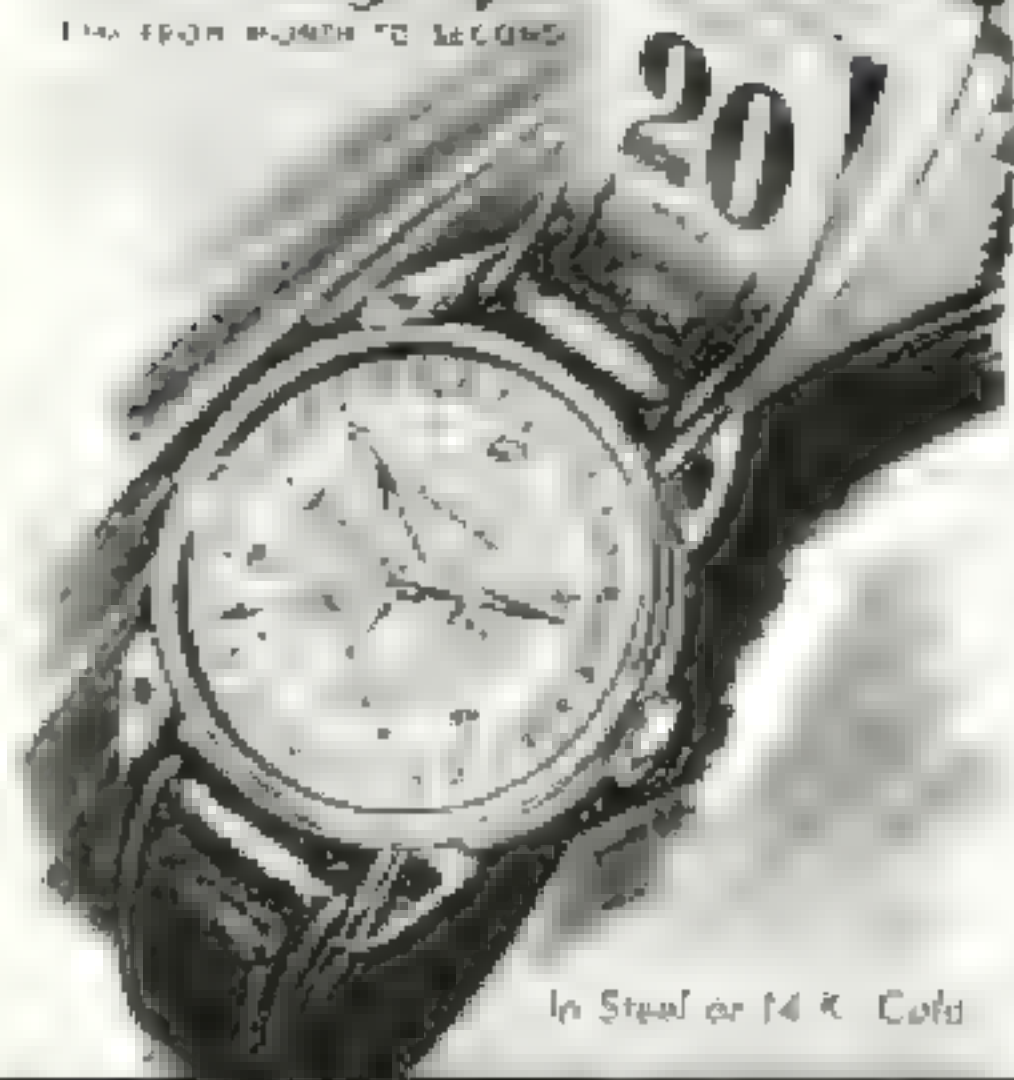


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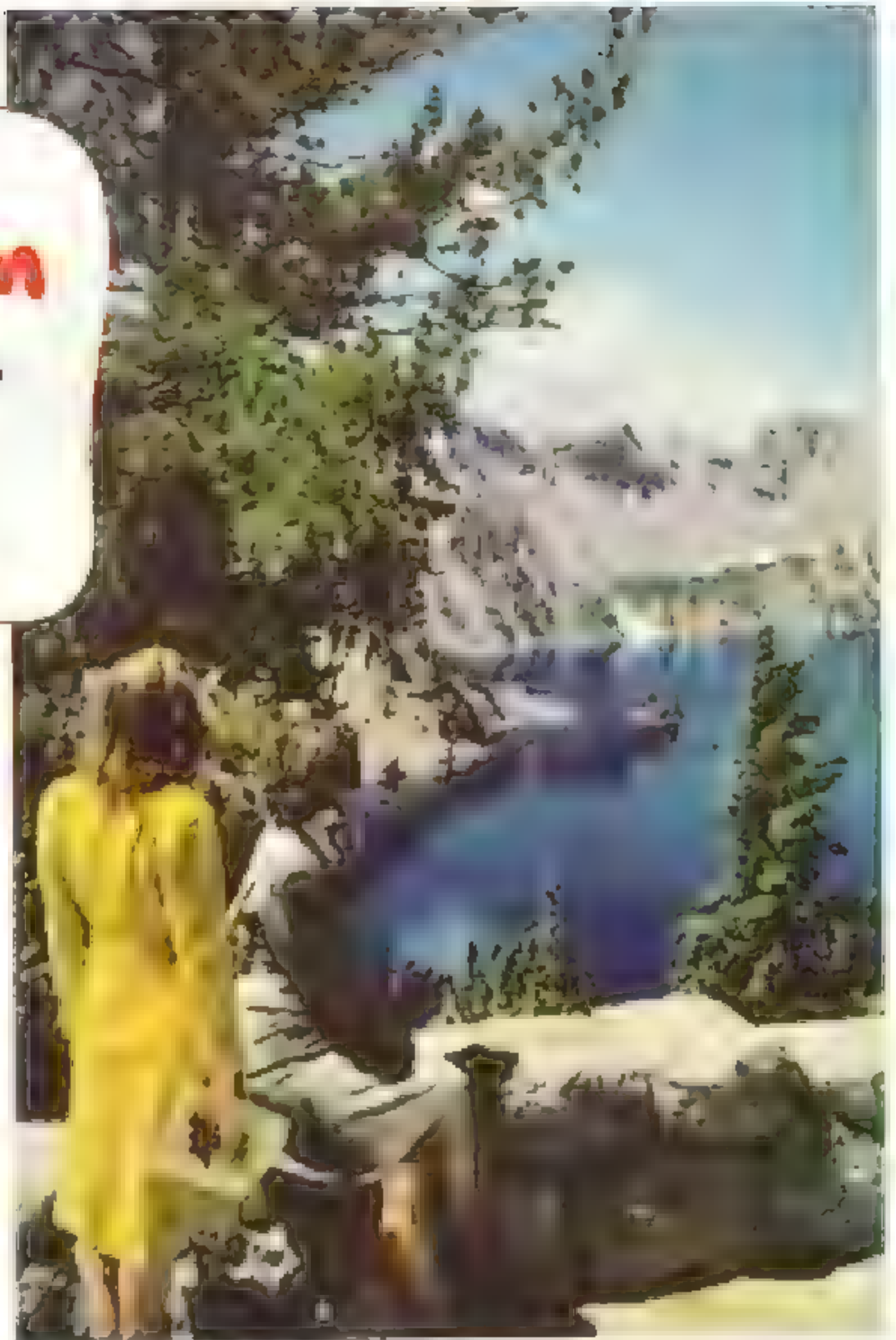
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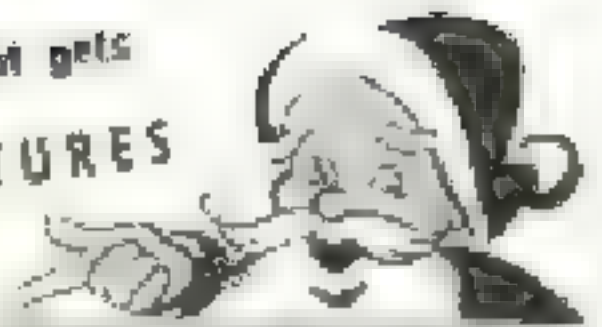


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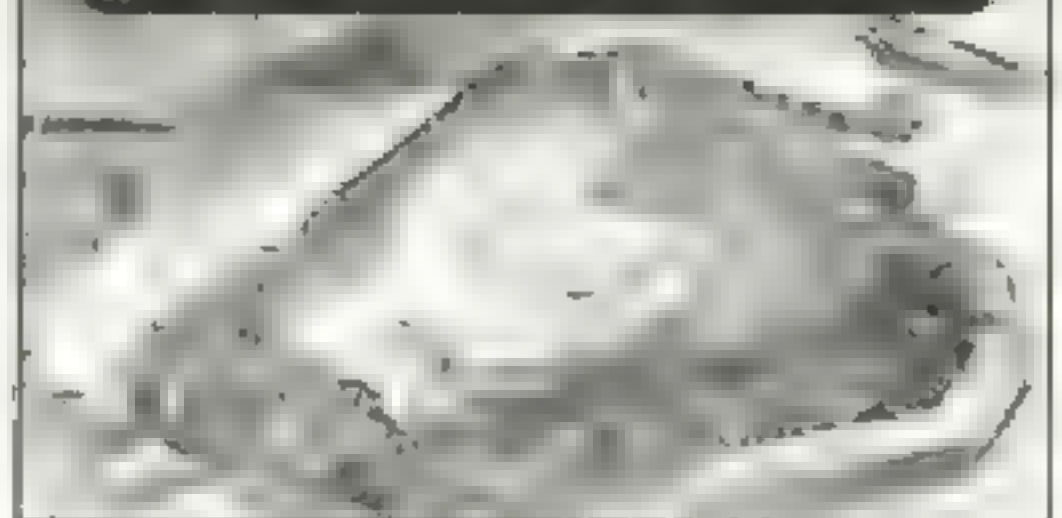
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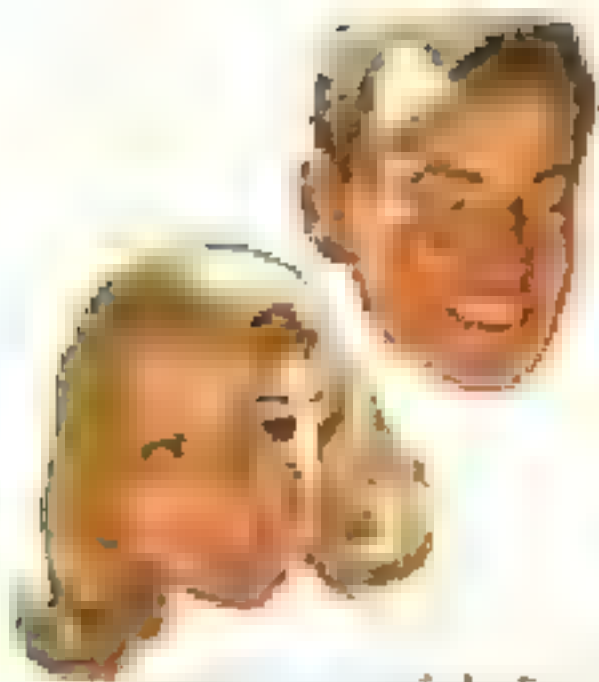
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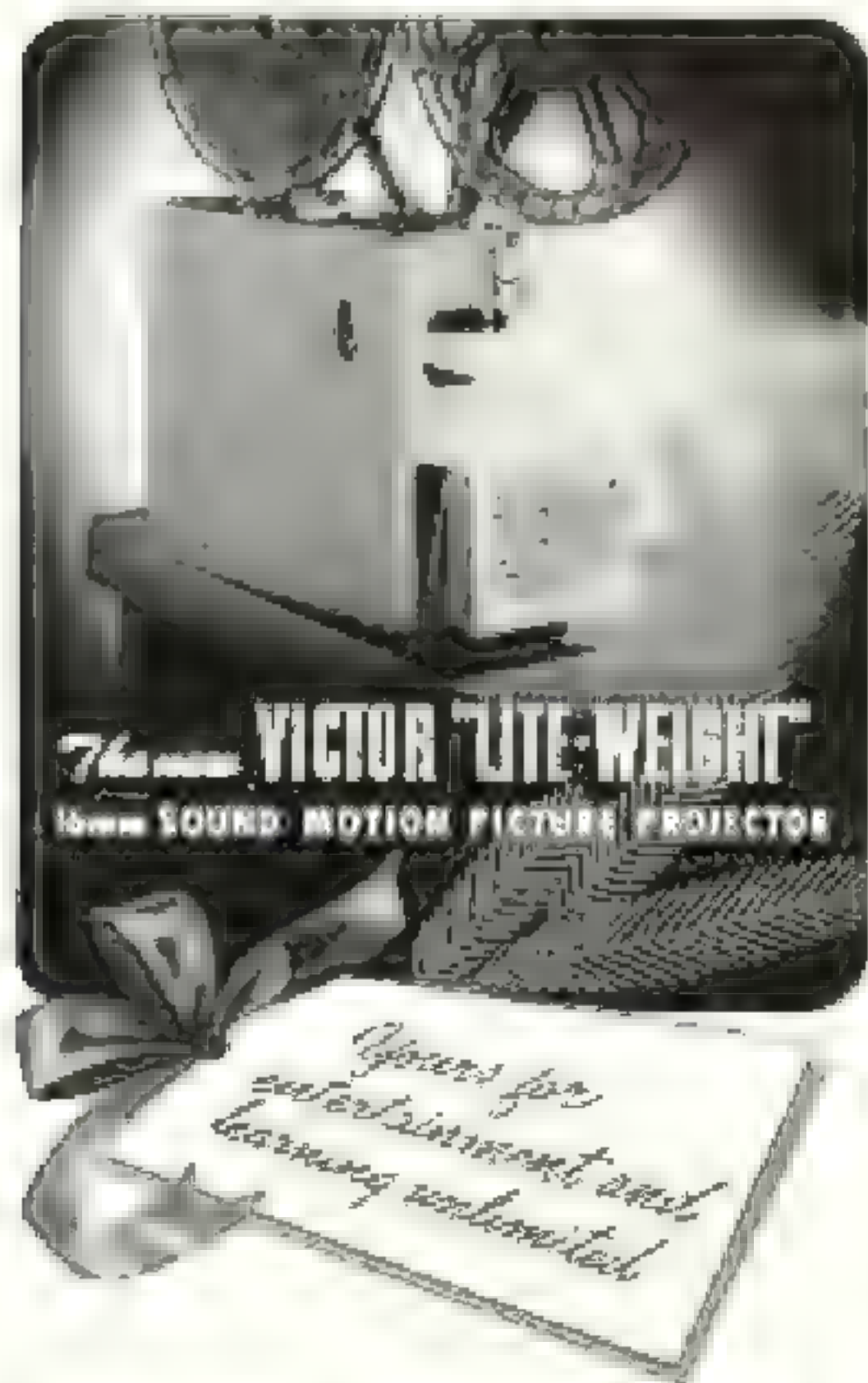


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SOME "DO'S" AND "DON'TS" FOR APPENDICITIS



DO

—learn the warning signals that may mean appendicitis! The first sign of acute appendicitis is usually pain in the abdomen accompanied by nausea or vomiting.

The pain may be general at first, like a simple stomach-ache, but will probably become focused in the lower right side. It can be a sharp severe pain or a dull ache. Symptoms sometimes vary, so any persistent, puzzling "stomach-ache" should have prompt medical attention.



DO

—call your physician at once when such warnings appear! Appendicitis sometimes is difficult to diagnose. Your doctor may need to take blood counts or make other tests. Calling him promptly enables him to make such tests and to determine the proper treatment before serious damage has occurred.

Appendicitis now has been reduced and its many lives saved. 75 years ago, when it could be saved if everyone called a doctor at the first sign of an attack.



DON'T

—treat yourself with home remedies! If you have an abdominal pain and are concerned, avoid taking a laxative or cathartic. They may cause the appendix to rupture.

A study of appendicitis in the Japanese showed that when appendicitis patients took no laxative, only 1 in 10 died! Of those who took a laxative, 1 in 4 died.

External pressure can also cause a rupture, so you shouldn't rub or massage the site of the pain. And it's wiser not to apply heat, but water bottles or an ice bag.



DON'T

—try to keep going normally if you suspect appendicitis. Any physical exertion or exercise may lead to complications, so lie down, in bed if possible, and rest there.

The pain may let up but this does not mean the attack has passed. It's up to you to rest and protect until the doctor comes. The first 48 hours are the danger zone. Try to avoid eating or drinking anything, except water, until your doctor has examined you.

As more people learn more about this disease, appendicitis mortality can be brought still lower. For further information that may protect you and your family, send today for Metropolitan's free book at 137-N, "Appendicitis."

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Cine-Kodak movies on Christmas Eve*

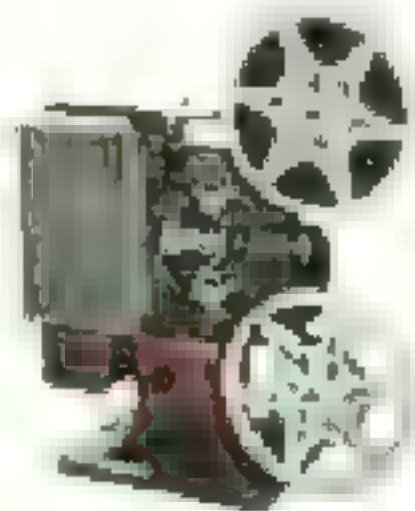
Last Christmas... this Christmas... the great days of years past and years to come—these are things kids want to put into movies. One of their favorite evenings to screen the color and action of yesteryears is Christmas Eve... their favorite of all days for taking priceless family scenes is Christmas Day. Fortunately, more and more fine Cine-Kodak cameras and Kodascope projectors are becoming available. Talk it over with your Kodak dealer... soon! Eastman Kodak Company, Rochester 4, N. Y.



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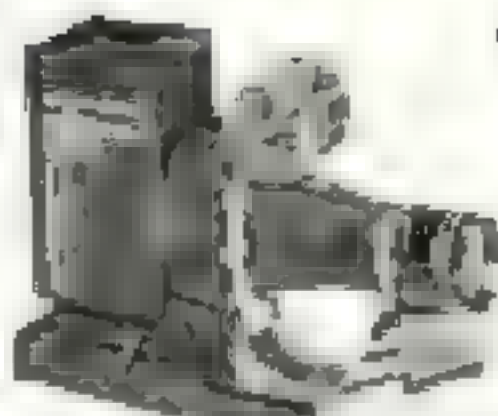
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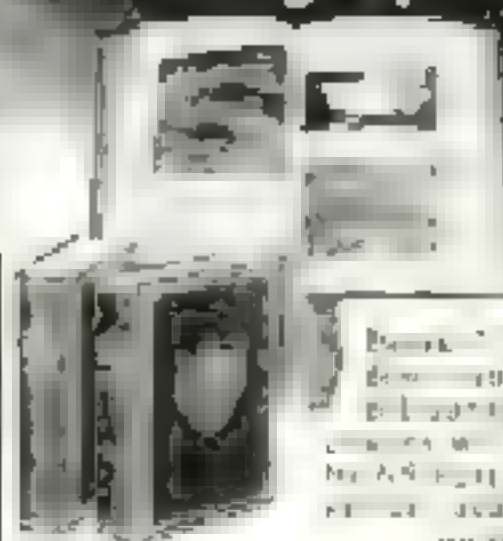
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Yoon et al. (2010) have shown that the use of a Venn diagram in the classroom can help students understand the relationship between two sets of data. For example, if a teacher is teaching about the relationship between two sets of data, such as the number of students who like math and the number of students who like science, a Venn diagram can be used to show the overlap between the two sets. This can help students understand that some students may like both math and science, while others may like only one of the two subjects.

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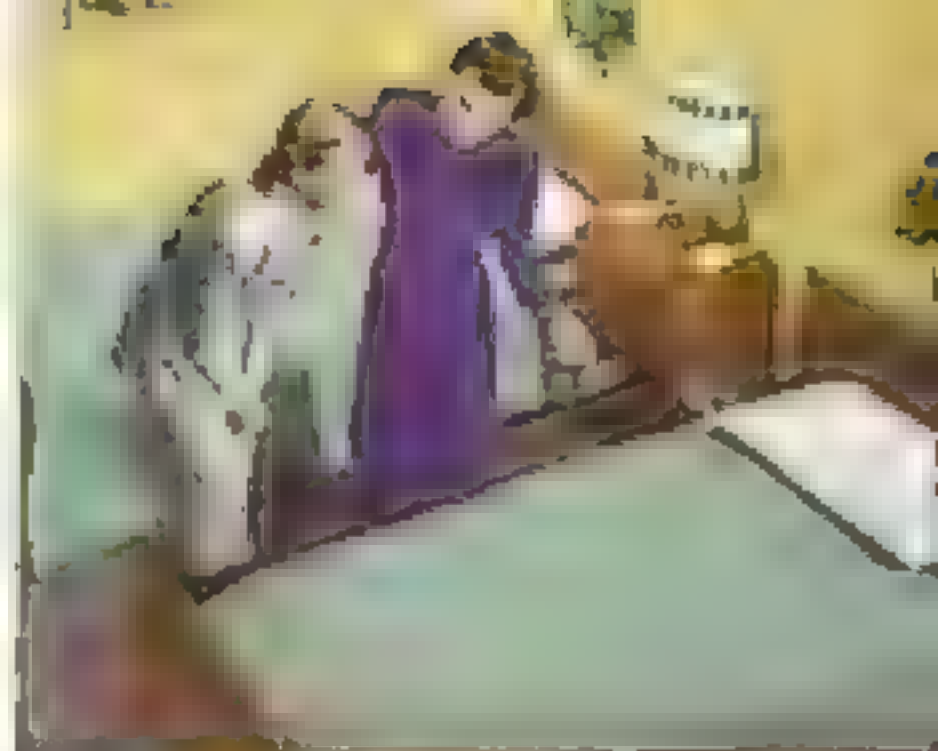


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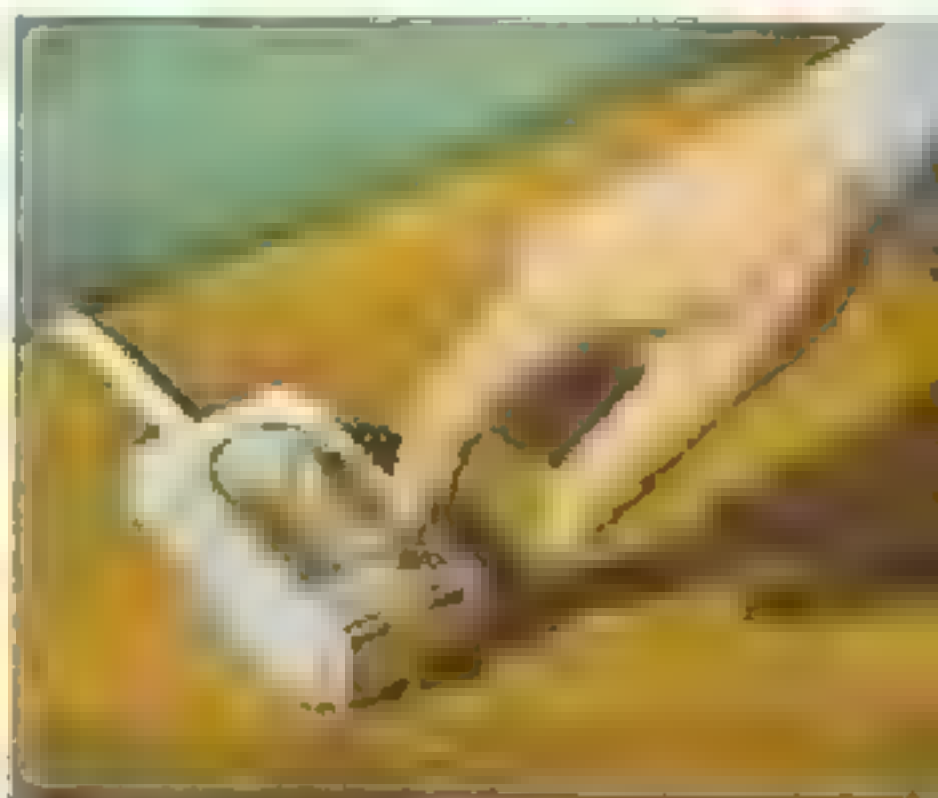
**"Great gift idea!" say the Tituses,
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Read how Bernice and Jack Titus, of Los Angeles (plus 500,000 pleased users) enjoy the coziness of the General Electric Blanket!



2. "It's wonderful, being able to slip into a prewarmed bed that stays snug all evening. No more chilly, wakeful nights!" Here Bernice Titus shows off the automatic blanket in their newly decorated guest room. (General Electric is "first" again with this convenient new Two-Bed size.)



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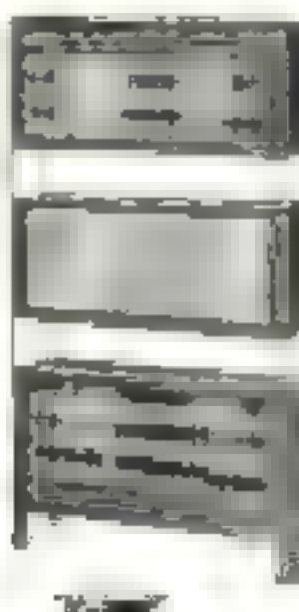


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THE RESPONSIBILITY OF MANAGEMENT IN THE BELL SYSTEM



It used to be that the owners of practically every business were themselves the managers of the business. Today, as far as large businesses are concerned, a profound change has taken place. In the Bell System, for instance, employee management, up from the ranks, and not owner management, is responsible for running the business.

This management has been trained for its job in the American ideal of respect for the individual and equal opportunity for each to develop his talents to the fullest. A little thought will bring out the important significance of these facts.

Management is, of course, vitally interested in the success of the enterprise it manages, for if it doesn't succeed, it will lose its job.

So far as the Bell System is concerned, the success of the enterprise depends upon the ability of management to act as a trustee for the interest of all concerned—the millions of telephone users, the hundreds of thousands of employees, and the hundreds of thousands of stockholders. Management necessarily must do the best it can to reconcile the interests of these groups.

Of course, management is not infallible; but, with its intimate knowledge of all the factors, management is in a better position than anybody else to consider intelligently and act equitably for each of these groups—and in the Bell System there is every incentive for it to wish to do so.

Certainly in the Bell System there is no reason either to underpay labor or overcharge customers to increase the "private profits of private employers," for its profits are limited by regulation. In fact, there is no reason whatever for

management to exploit or to favor any one of the three great groups as against the others and to do so would be plain stupid on the part of management.

* * *

This business cannot succeed in the long run without well-paid employees with good working conditions, without a large return to those who have put their savings in the enterprise, and without reasonable prices to the customers who buy its services. On the whole these conditions have been well met over the years in the Bell System.

Admittedly, this has not been and is not an easy problem to solve fairly for all concerned. However, collective bargaining with labor means that labor's point of view is forcibly presented. What the investor must have is determined by the market. In our business, to attract the needed additional capital, which can only be obtained in competition with other industries.

And in our regulated business, management has the responsibility—together with regulatory authorities—to see to it that the rates to the public are such as to assure the money, credit and plant that will give the best possible telephone service at all times.

More and better telephone service at a cost as low as fair treatment of employees and a reasonable return to stockholders will permit is the aim and the responsibility of management in the Bell System.

Walter S. Gifford

WALTER S. GIFFORD, President
AMERICAN TELEPHONE AND TELEGRAPH COMPANY

